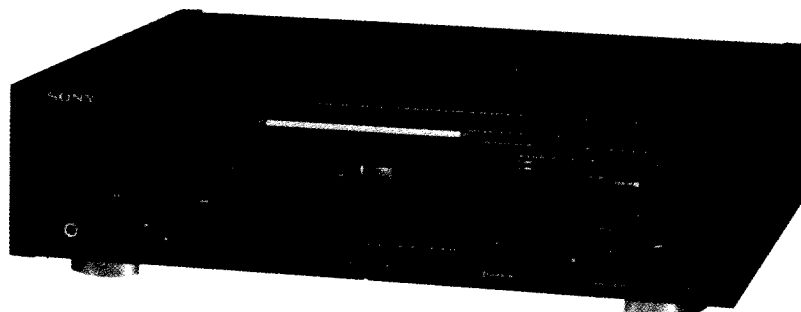



TC-K333ESR/K730ES

SERVICE MANUAL



US Model
Canadian Model
AEP Model
UK Model
 TC-K730ES
E Model
 TC-K333ESR

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

This photo is TC-K333ESR

SPECIFICATIONS

| Model Name Using Similar Mechanism | NEW |
|------------------------------------|-----------|
| Tape Transport Mechanism Type | TCM-110D3 |

| | |
|------------------------------|--|
| Recording system | 4-track 2-channel stereo |
| Bias frequency | 210 kHz |
| Heads | Erase head × 1 (S & F head) Record head × 1 (LA head) Playback head × 1 (LA head) |
| Motors | Capstan motor × 1 (direct drive linear torque BSL motor) Reel motor × 1 (DC motor) |
| Wow and flutter | ±0.04% W.peak (IEC) 0.025% WRMS |
| Fast-forward and rewind time | Approx. 90 sec (with C-60 cassette) |
| Frequency response | Dolby NR OFF TYPE IV cassette (Sony METAL-ES) 20 – 21,000 Hz ±3 dB (DIN) 20 – 16,000 Hz ±3 dB (0 VU recording level) 15 – 22,000 Hz TYPE II cassette (Sony UX-S) 20 – 19,000 Hz ±3 dB (DIN) 15 – 20,000 Hz TYPE I cassette (Sony HF-S) 20 – 17,000 Hz ±3 dB (DIN) 15 – 19,000 Hz |

Signal-to-noise ratio (at peak level)

| Cassette | TYPE I (Sony HF-S) | TYPE II (Sony UX-S) | TYPE IV (Sony METAL-ES) |
|-----------------|-----------------------|------------------------|----------------------------|
| Dolby NR system | | | |
| C-TYPE ON | 69 dB | 72 dB | 73 dB |
| B-TYPE ON | 63 dB | 66 dB | 67 dB |
| OFF | 56 dB | 59 dB | 60 dB |

| | |
|---------------------------|--|
| Total harmonic distortion | 0.8% (with Sony METAL-ES cassette) |
| Inputs | Line inputs (phono jacks) Sensitivity 77.5 mV Input impedance 50 k ohms |
| Outputs | Line outputs (phono jacks) Rated output level 0.44 V (–5 dB) at load impedance 47 k ohms Minimum load impedance 10 k ohms Headphones output (stereo phone jack) Output level continuously variable from 0 – 3 mW (at load impedance 32 ohms) |

General

| | |
|----------------------|--|
| Power requirements | US, Canadian model: 120V AC, 60Hz UK model: 240V AC, 50Hz (220V AC adjustable by authorized Sony personnel) AEP model: 220V AC, 50/60 Hz (240V AC adjustable by authorized Sony personnel) E model: 120, 220 or 240V AC adjustable, 50/60Hz |
| Power consumption | 30 watts |
| Dimensions | Approx. 470 × 125 × 350 mm (w/h/d) (18 ³ / ₈ × 5 × 13 ³ / ₄ inches) |
| Weight | Approx. 9.5 kg (22 lb) |
| Supplied accessories | Connecting cord (2) Screws (8) |

— continued on next page —

STEREO CASSETTE DECK
SONY®



Peak program meters

Display range −40 to +8 dB
 Frequency response 20 – 20,000 Hz ±1.5 dB
 Attack time 1 ms
 Recovery time 750 ms (from 0 to −20 dB)
 Number of display segments 16 each for left and right channel

Design and specifications are subject to change without notice.


Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

TABLE OF CONTENTS

| <u>Section</u> | <u>Title</u> | <u>Page</u> |
|----------------------------------|--|-------------|
| 1. GENERAL | | |
| 1-1. | Location and Function of Controls | 3 |
| 2. MECHANICAL ADJUSTMENTS | | 4 |
| 3. ELECTRICAL ADJUSTMENTS | | 7 |
| 4. DIAGRAMS | | |
| 4-1. | Semiconductor Lead Layouts | 16 |
| 4-2. | Printed Wiring Board —Audio Section— | 17 |
| 4-3. | Schematic Diagram —Audio Section— | 21 |
| 4-4. | Printed Wiring Board —System Control Section— .. | 25 |
| 4-5. | Schematic Diagram —System Control Section— | 29 |
| 5. EXPLODED VIEWS | | |
| 5-1. | Case | 33 |
| 5-2. | Front Panel | 34 |
| 5-3. | Chassis | 35 |
| 5-4. | Mechanism Section (1) | 36 |
| 5-5. | Mechanism Section (2) | 38 |
| 6. ELECTRICAL PARTS LIST | | 40 |

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

OPERATING VOLTAGE

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.

The USA and Canada model operates on 120 V AC.

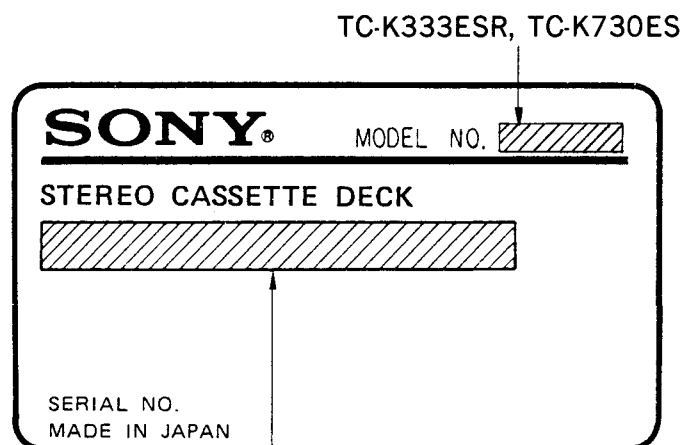
The European model operates on 220 V AC (or 240 V AC adjustable by authorized Sony personnel).

The United Kingdom model operates on 240 V AC (or 220 V AC adjustable by authorized Sony personnel).

The model for other countries operates on 120, 220 or 240 V AC. The voltage selector is located on the rear panel. If the selector must be reset, **disconnect the AC power cord** and set the selector to the appropriate voltage.

MODEL IDENTIFICATION

— Specification Label —



AEP Model: AC: 220 V~50/60 Hz


UK Model: AC: 240 V~50/60 Hz

E Model: AC: 120/220/240 V~50/60 Hz 30 W

US Model: AC: 120 V 60 Hz 30 W

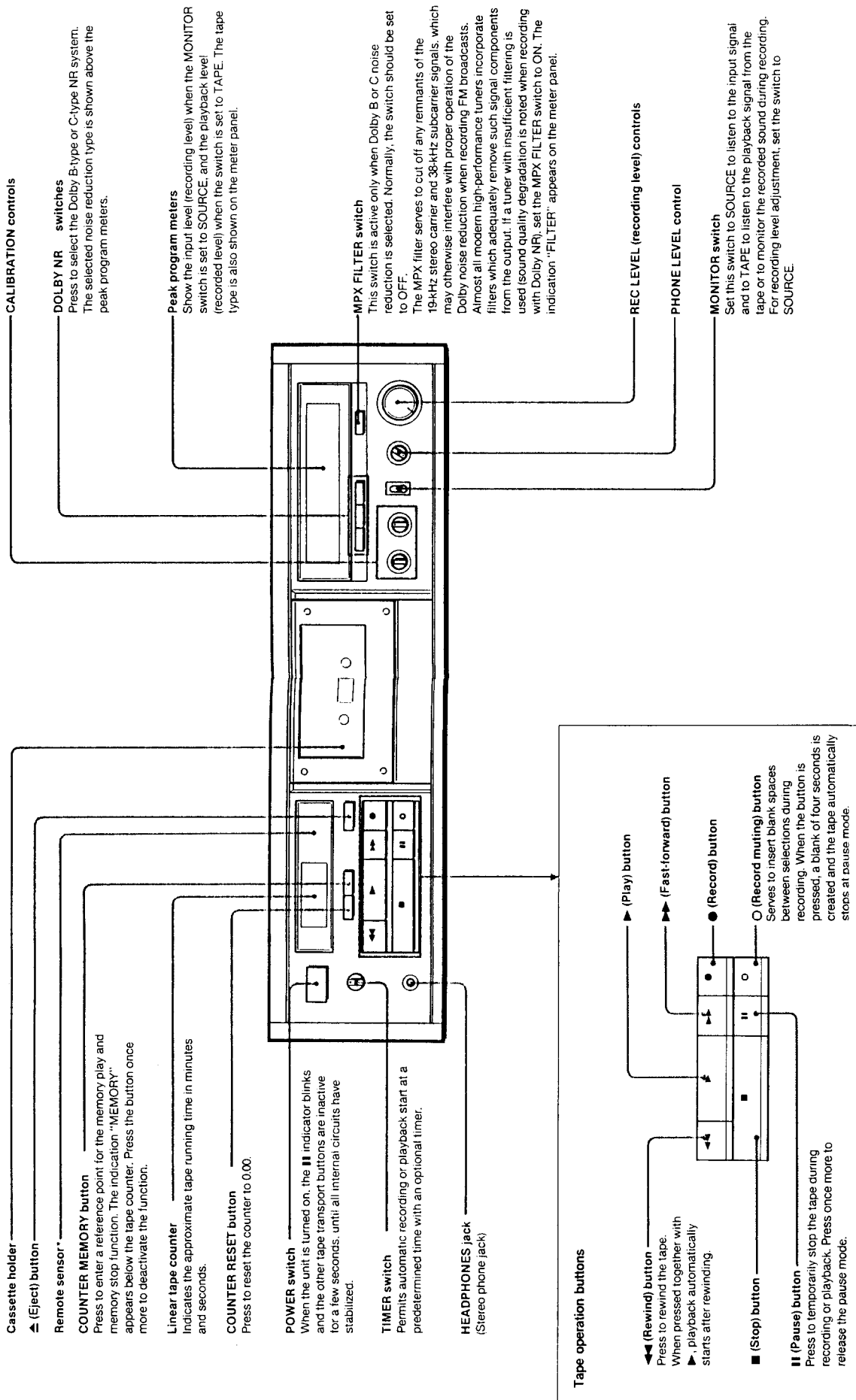
Canadian Model: AC: 120 V 60 Hz 30 W

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

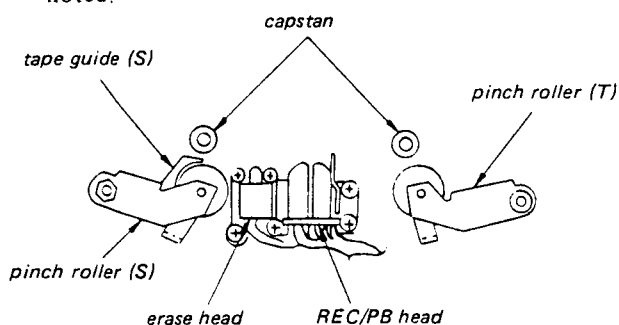


SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

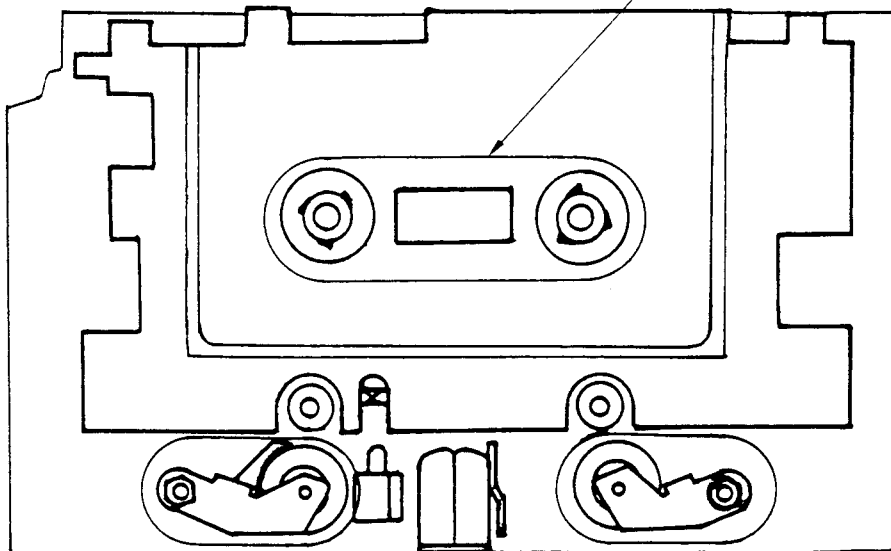
| | |
|----------------------|--------------|
| record/playback head | pinch roller |
| erase head | rubber belts |
| capstan | idlers |
2. Demagnetize the record/playback and erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



FF, REW Torque Check

1. Insert the torque meter CQ201B.
2. Check FF torque when changing the mode STOP → FF.
3. Check REW torque when changing the mode STOP → REW.

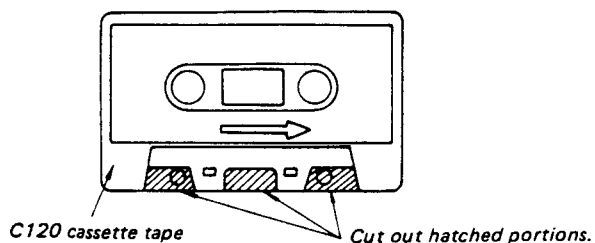
| Torque | Torque meter | Reading |
|---------|--------------|--|
| FF, REW | CQ201B | 60 to 130 g·cm (0.84 to 1.82 oz·inch) |



Head Height Adjustment

Insert a mirror cassette or adjustment cassette and adjust screws **A** – **C** so that the tape enters the tape guide of the record/playback head smoothly when pushing the head base out by hand.

1. Make an adjustment cassette as shown below or use a mirror cassette.

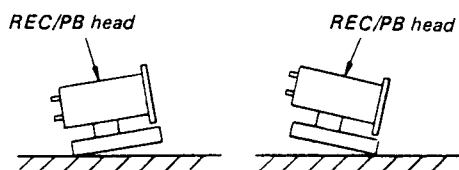
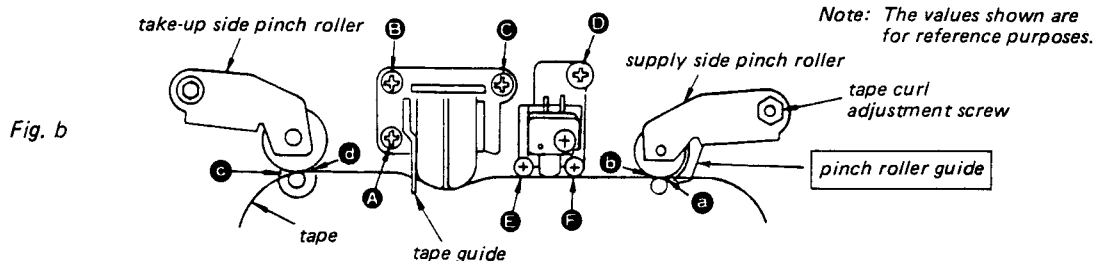
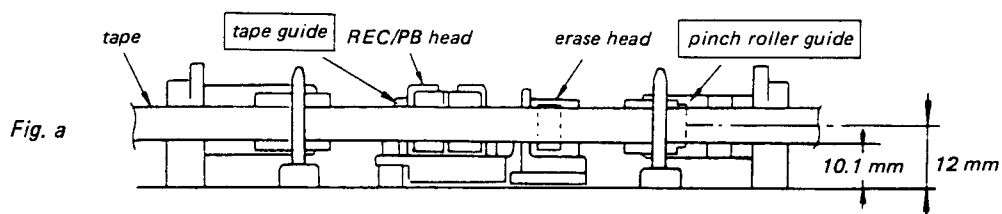


2. Insert the mirror cassette (or adjustment cassette) into the set. In FWD mode, the tape should not curl at the portions shown by arrows (tape guides) in Fig. a. If it does, adjust the height of tape guide of supply pinch roller.

Adjustment locations:

adjustment screw of tape curl in Fig. b

(Be careful not to turn the screw more than 1/2 turn.)



3. Back tension: 0

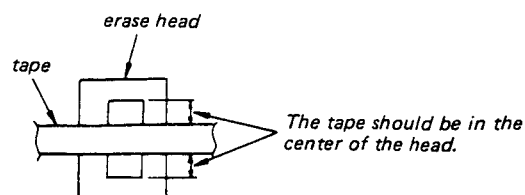
Make sure that there is no tape twist at portions **a** – **d**.

1. When the tape twists upwards:
Turn adjustment screws **B**, **C** of the record/playback head and recline the head as shown in Fig. c.
2. When the tape twists downwards:
Turn adjustment screws **B**, **C** and recline the head as shown in Fig. d.

4. Measure the height of erase head.

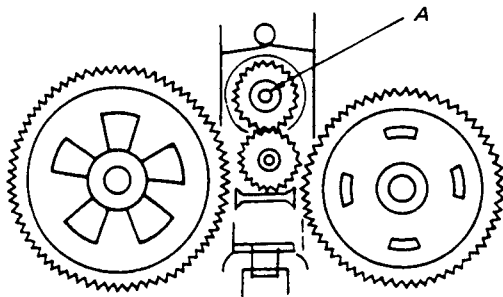
If it is out of the range indicated in Fig. e, follow the procedures below.

1. When the height of erase head is out of the range:
Adjust the height by screws **D**, **E**, **F** of the erase head.
2. After adjusting the height of the erase head, make sure that the head is not inclined. If necessary, loosen or tighten adjustment screw **D**.



Forward Torque/Back Tension Torque Adjustment

1. Insert the taken-up tape, and set the Forward mode. Adjust RV701 so that the A begins to rotate.



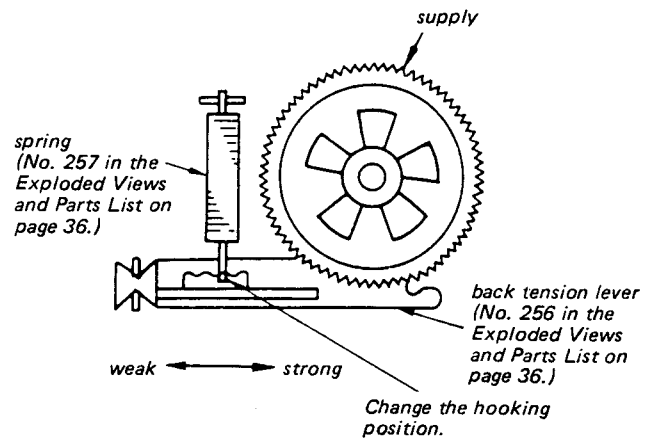
2. Insert the torque meter CQ102C, make sure that the forward torque and the back tension torque meet the specifications.

Specifications

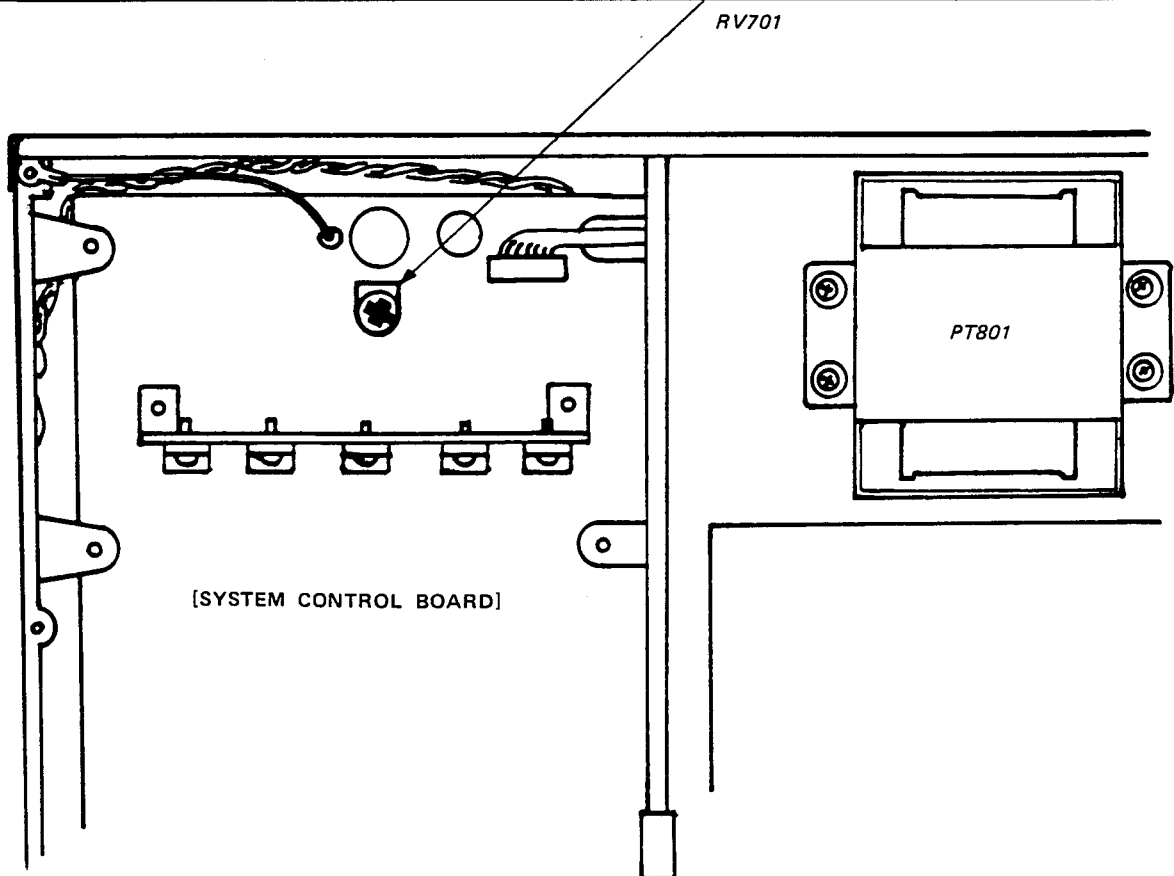
Forward torque: 30 to 60 g·cm
(0.42 to 0.84 oz·inch)

Forward back tension torque:
7 to 10.5 g·cm
(0.1 to 0.15 oz·inch)

3. When the forward back tension torque doesn't meet the specifications, adjust by changing the hooking position of the spring as shown below.



Adjustment Location: system control board



SECTION 3 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.

The adjustments should be performed for both L-CH and R-CH.

- **Simultaneous REC/PB Mode:**

Input the signals to LINE IN terminal and set to REC mode. Set the monitor switch to TAPE, and monitor the recorded signal from LINE OUT terminal.

- **Switch Position:**

DOLBY NR OFF

NPX FILTER OFF

TIMER OFF

- **Standard Record:**

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

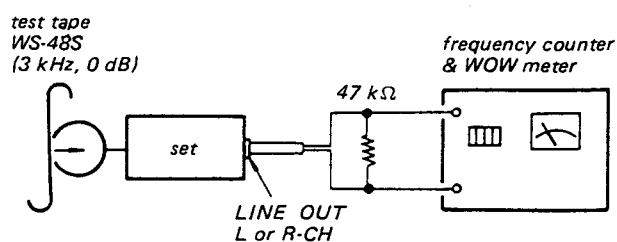
| Input Terminal | LINE IN |
|------------------|-----------------|
| source impedance | 10 k Ω |
| input level | 0.25 V (−10 dB) |

Standard Output Level

| Output Terminal | LINE OUT |
|-----------------|----------------|
| load impedance | 47 k Ω |
| output level | 0.44 V (−5 dB) |

Tape Speed/WOW Check

Procedure:



1. Measure the output frequency and the WOW value while playing back the tape top of the test tape.

2. Turn over the test tape, measure the output frequency and the WOW value, and check the difference against the values of the step 1.

Specification:

TAPE SPEED deviation: within 2,990 to 3,010 Hz

TAPE SPEED fluctuating width: within 2,990 to 3,010 Hz

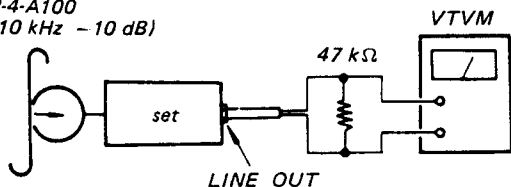
WOW (WRMS): 0.037% below

Provisional Playback Head Azimuth Adjustment

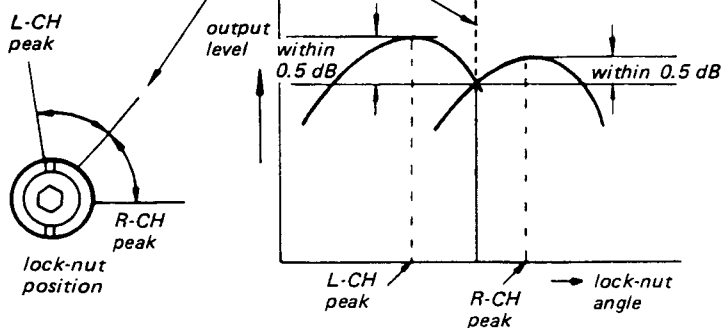
Procedure:

1. Mode: playback

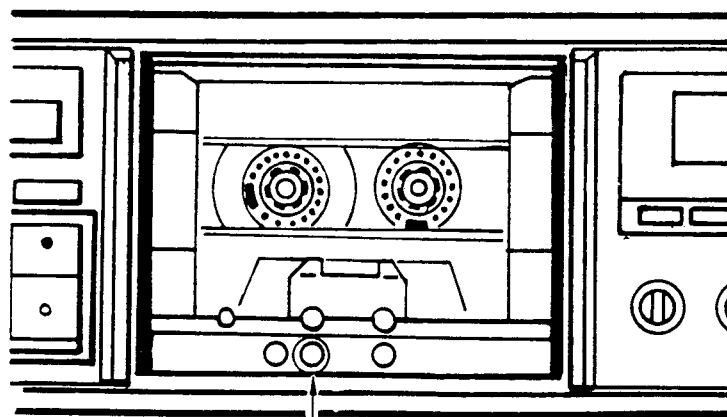
test tape
P-4-A100
(10 kHz -10 dB)



2. Turn the adjustment lock-nut for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



Adjustment Location:

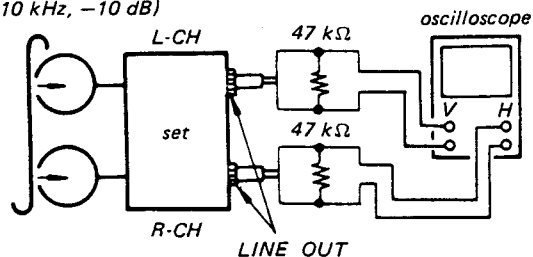


PB head azimuth adjustment screw

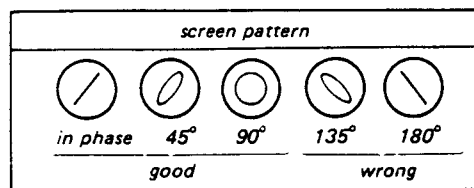
3. Phase check.

Mode: playback

test tape
P-4-A100
(10 kHz, -10 dB)



4. Make sure the phase difference is in between in-phase to 90°.

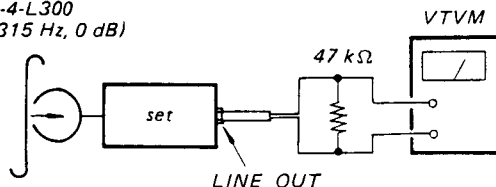


Playback Level Adjustment

Procedure:

Mode: playback

test tape
P-4-L300
(315 Hz, 0 dB)



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Specification:

LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: PB board

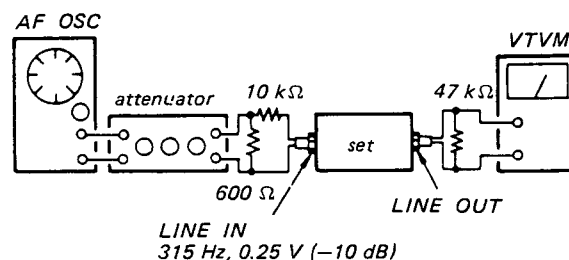
Meter Level Adjustment

Setting:

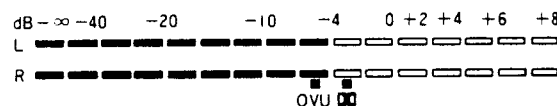
MONITOR switch: SOURCE

Procedure:

1. Stop mode.

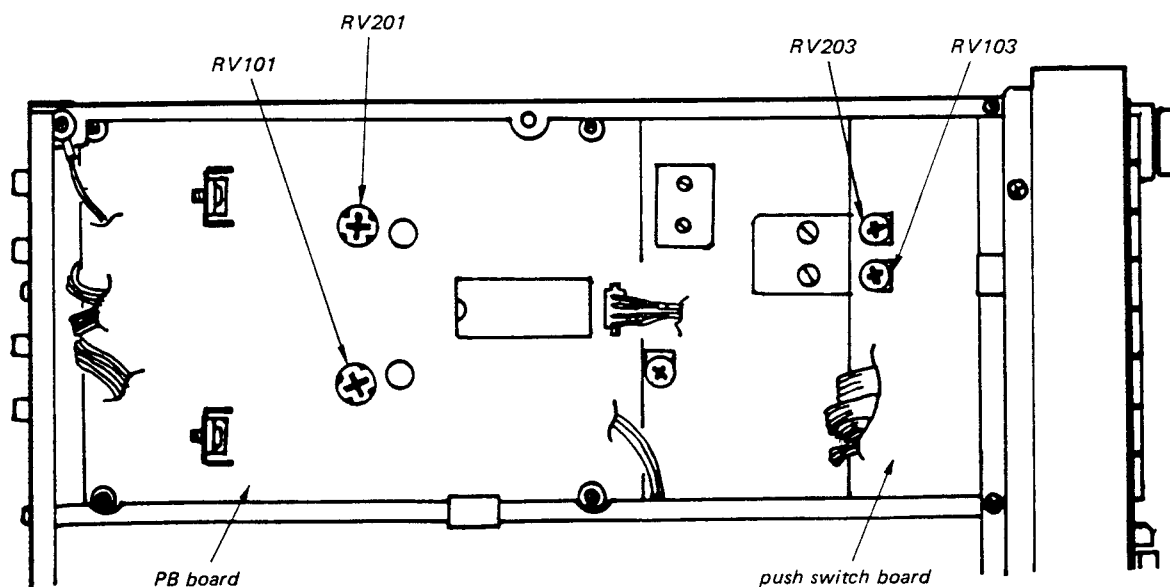


2. Adjust the recording level so that the LINE OUT level is 0.44 V (-5 dB). In this time adjust RV103 (L-CH) and RV203 (R-CH) so that the 0 VU (-4 dB) segments of the meter light-up.



3. Adjust the recording level so that the LINE OUT level is 1.9 V (8 dB). In this time, make sure that all the segments of the meter light-up.

Adjustment Location: push switch board

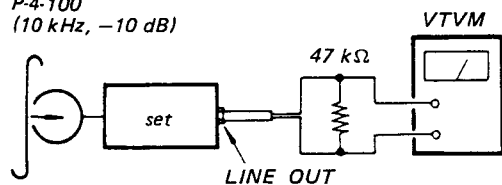


PB DOLBY NR Check

Procedure:

1. Mode: playback

test tape
P-4-100
(10 kHz, -10 dB)



2. Make sure that the output levels are different in DOLBY NR OFF, B, and C.

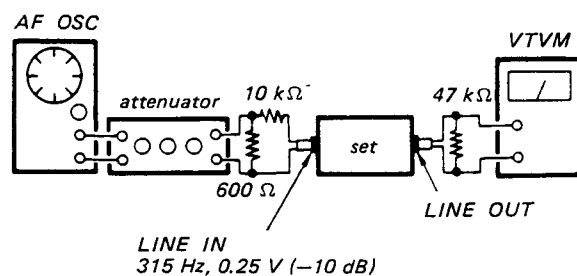
Specification:

OFF ↔ B level difference -0.5 to -2.5 dB
B ↔ C level difference -0.5 to -2.5 dB

MPX FILTER Check

Procedure:

1. Mode: stop



2. Apply 315 Hz, 0.25 V (-10 dB) signal and adjust REC LEVEL control so that the LINE OUT level is 0.44 V (-5 dB).
3. Apply 19 kHz, 0.25 V (-10 dB) signal and measure the LINE OUT level.

Specification:

DOLBY NR: OFF, FILTER: ON/OFF
0.49 to 0.39 V (-4 to -6 dB)
DOLBY NR: B, C, FILTER: ON
0.025 V (-30 dB) or less

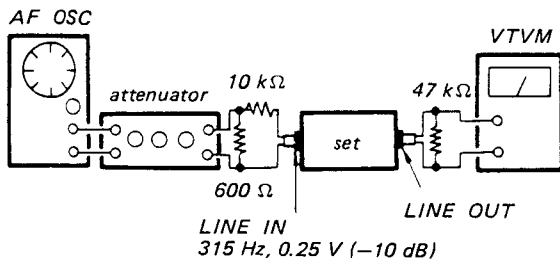
Provisional Record Head Azimuth Adjustment

Setting:

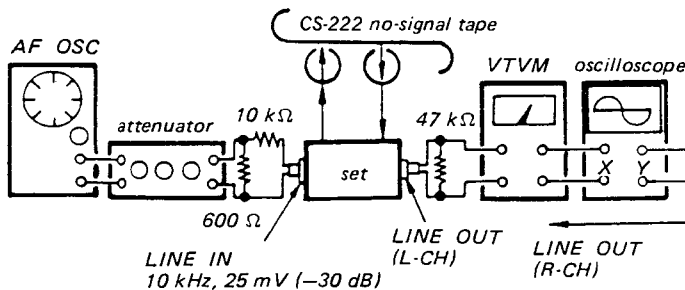
BIAS CAL control: center click

Turn RV506 (L-CH, R-CH) fully clockwise and counterclockwise 1/2 to 1 time. (See Record Bias Adjustment on page 13.)

Procedure:

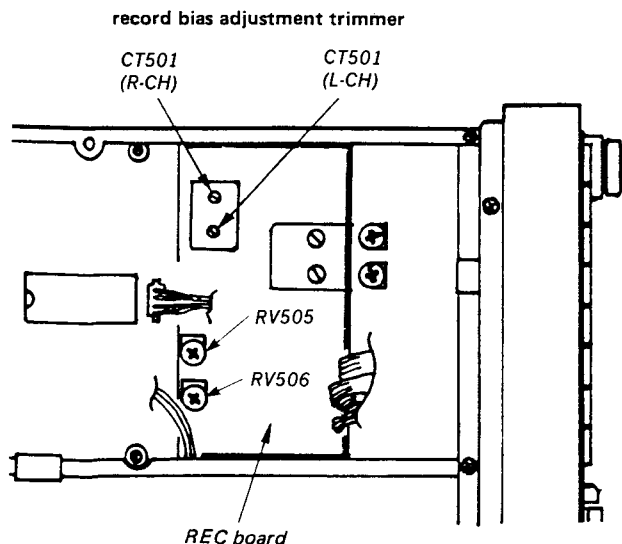


1. Apply 315 Hz, 0.25 V (-10 dB) signal and adjust REC LEVEL control so that the LINE OUT level is 0.44 V (-5 dB).

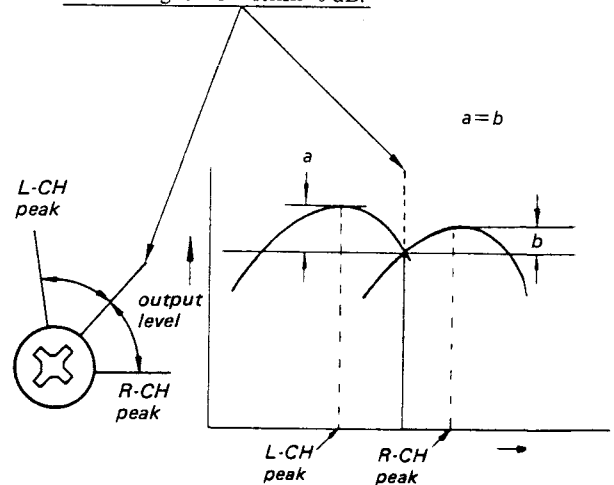


2. Apply 10 kHz, 25 mV (-30 dB) signal, set to the simultaneous REC/PB mode.

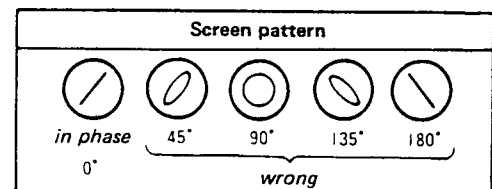
Adjustment Location: REC board



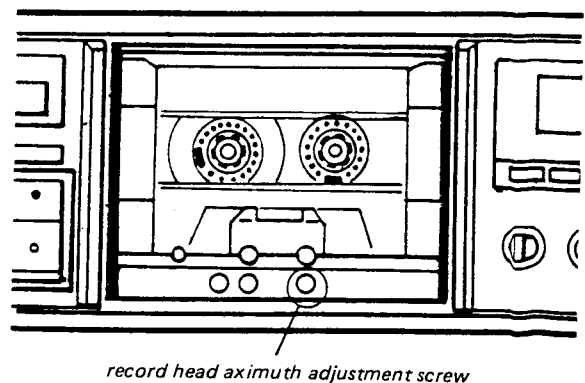
3. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0 dB.



4. Simultaneously, adjust the azimuth screw so that the phase difference between L-CH and R-CH is 0°.



Adjustment Location: head



Bias Osc Frequency Adjustment

Setting:

Metal Tape (TYPE IV)

LINE IN: no signal

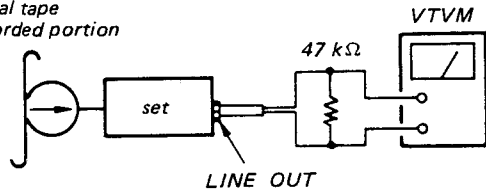
REC LEVEL knob: standard record position
(See page 7.)

• Bias Osc Frequency

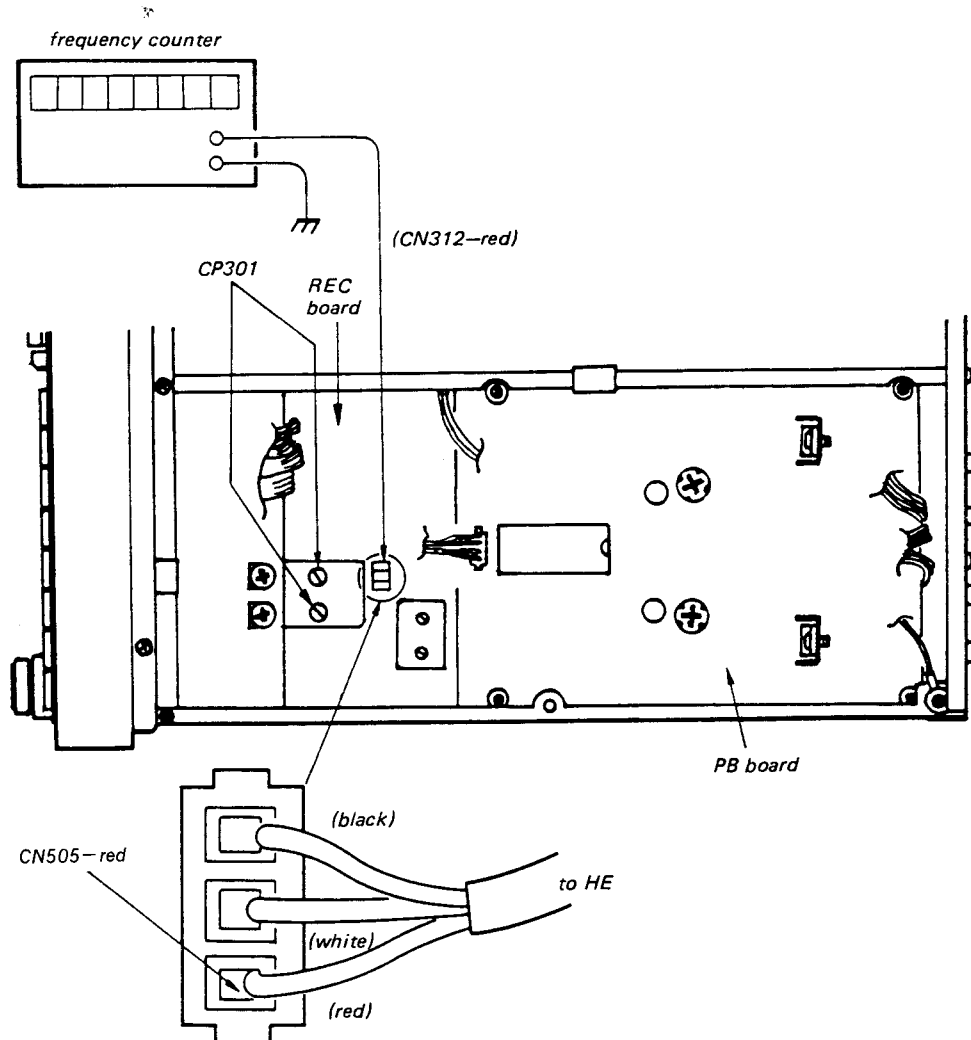
Procedure:

1. Mode: record

*metal tape
recorded portion*



2. Connect the frequency counter lead, to the erase head connecting terminal. Adjust CP 501 so that the reading on the frequency counter is 105 kHz (within 104 to 106 kHz).



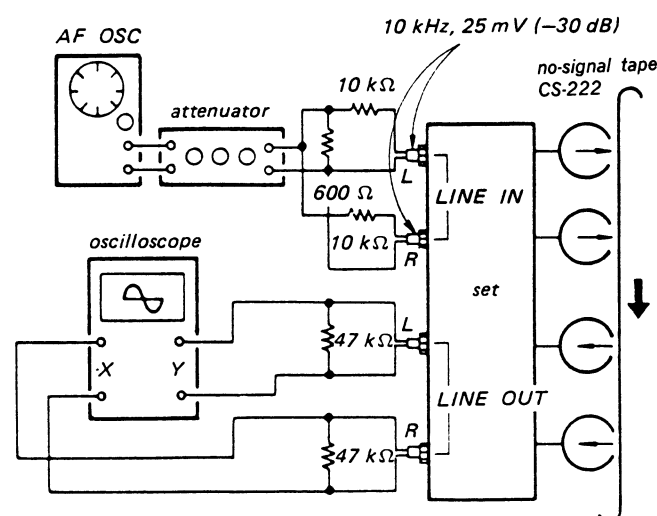
Record Head Azimuth Adjustment

Setting:

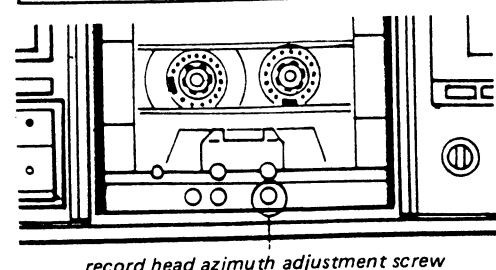
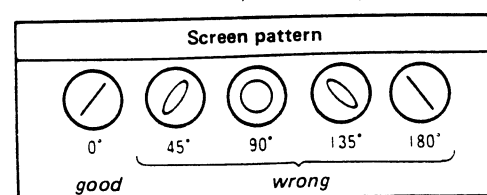
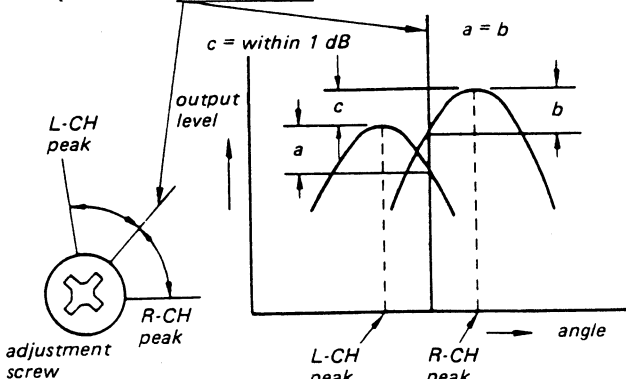
REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust the record head azimuth adjustment screw so that the phase difference is 0° (the difference between L-CH and R-CH is within 5°), and outputs match within 1 dB from the peak.



record head azimuth adjustment screw

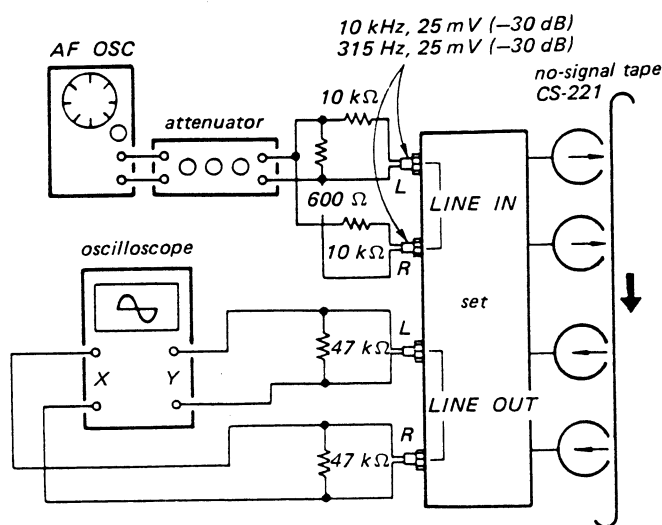
Record Bias Adjustment

Setting:

REC LEVEL knob: standard record position
(See page 7.)

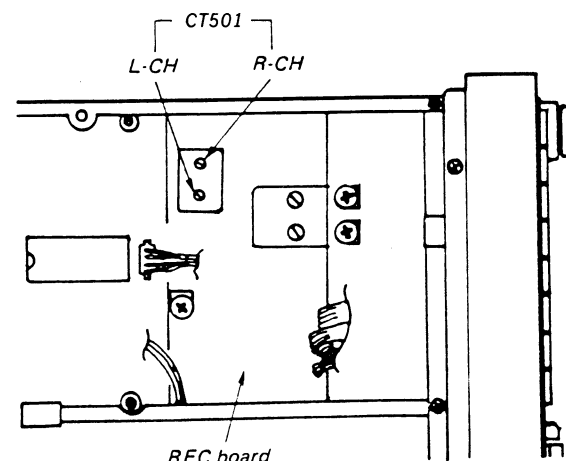
Procedure:

1. Mode: simultaneous REC/PB

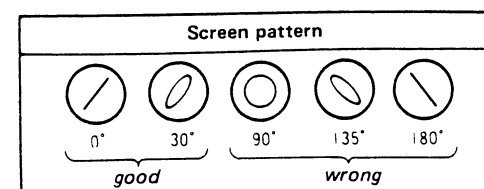


2. Adjust CT501 (L-CH, R-CH) to $0\text{ dB} \pm 0.5\text{ dB}$ playback level at 315 Hz and 10 kHz.

Adjustment Location: REC board

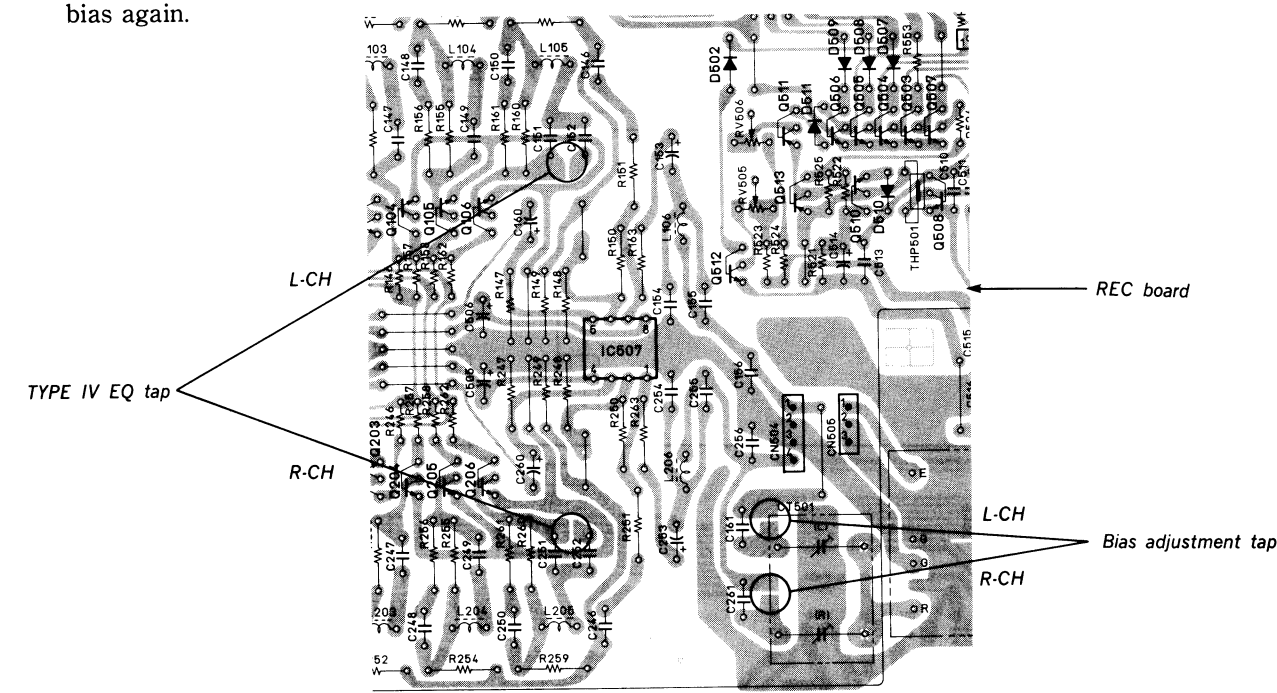


3. After the adjustment, confirm the phase at 10 kHz is 0° (the difference between L-CH and R-CH is within 30°). Repeat the record head azimuth adjustment and the record bias adjustment satisfy the specification again.



Note: For an adjusting trimmer, finish the adjustment within one rotation from the tightly closed state.

If more than one rotation is necessary, remove the bias adjusting tap, and adjust the bias again.



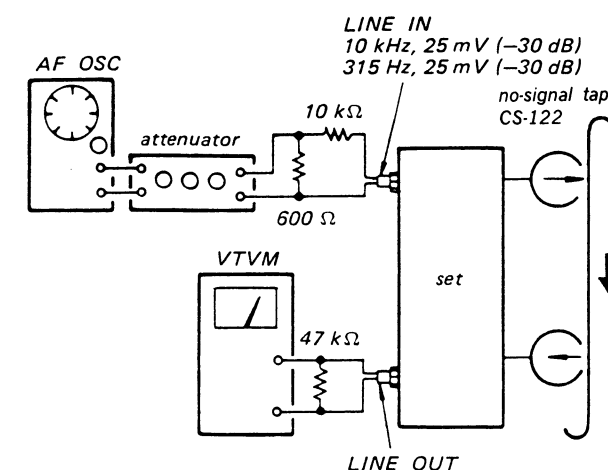
Normal Bias Adjustment

Setting:

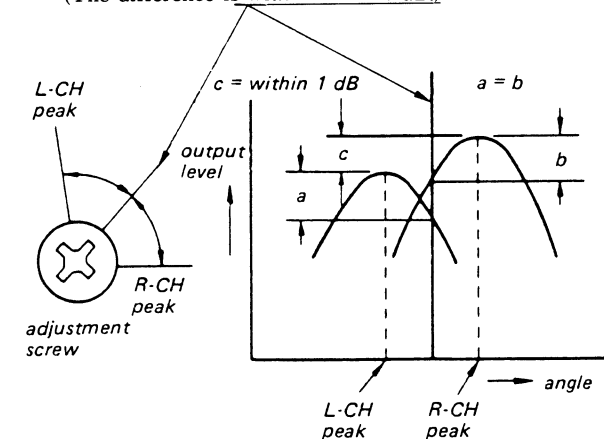
REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB

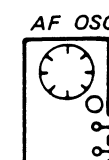


2. Adjust RV505 to obtain the same playback level at 315Hz and 10kHz.
(The difference is within $0\text{ dB} \pm 0.5\text{ dB}$.)



METAL
Setting:
REC LEV

Procedu
1. Mode



2. Adjust
playb
(The

L-CH
peak



adjustme
screw

Adj

SECTION 4 DIAGRAMS

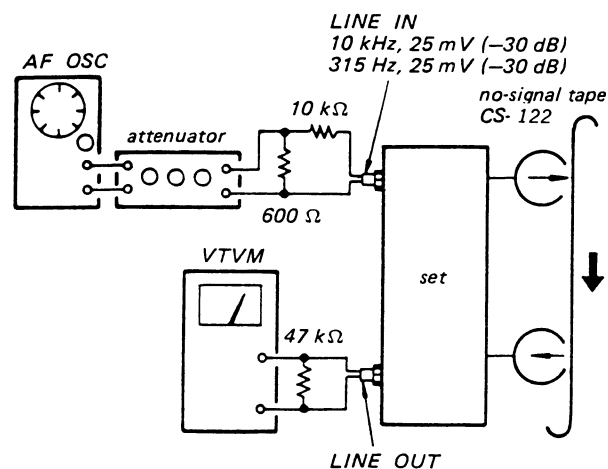
METAL Bias Adjustment

Setting:

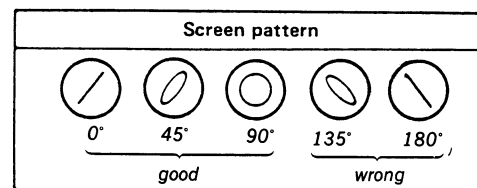
REC LEVEL Knob: Standard record position
(See page 7.)

Procedure:

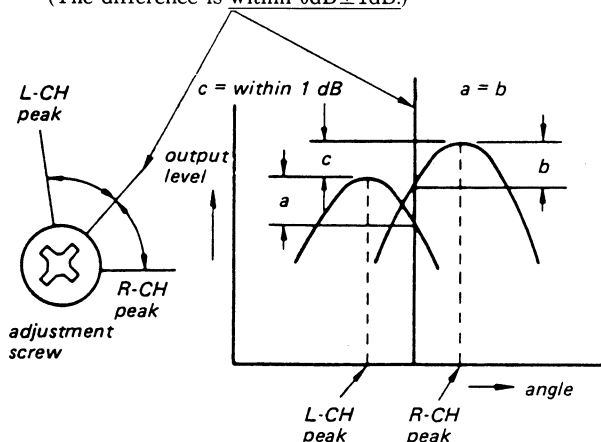
1. Mode: simultaneous REC/PB



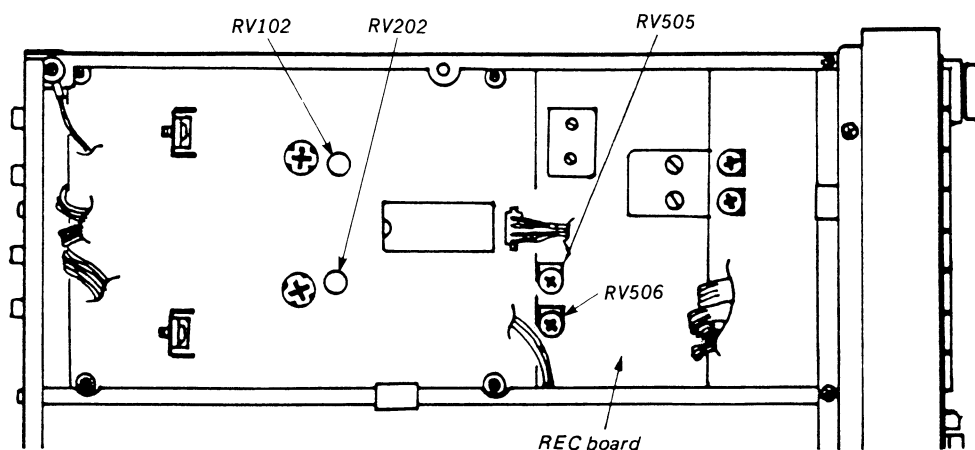
3. After adjustment, check the phase with 10kHz and make re-adjustment at 0° (L-CH, R-CH phase difference: Within $0 \pm 90^\circ$), and repeat the adjustment of bias and recording head vertical adjustment fully.



2. Adjust RV506 and TYPE IV EQ tap to obtain the same playback level at 315kHz and 10kHz.
(The difference is within $0\text{dB} \pm 1\text{dB}$.)



Adjustment Location: REC board



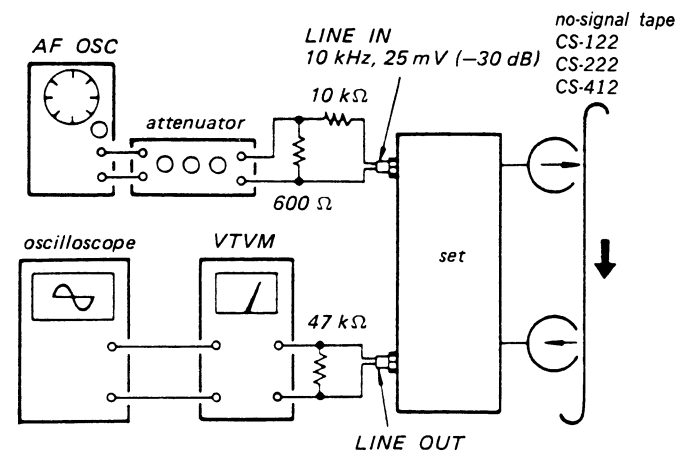
Record Level Adjustment

Setting:

REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB



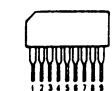
2. Adjust RV102 (L-CH) and RV202 (R-CH) to satisfy the specification.

Specification:

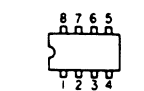
| | |
|------------------|---|
| Tape CS-222 | within 0.41 to 0.46 V (Within -5.5 to -4.5 dB) |
| Tape CS-122, 412 | within 0.39 to 0.49 V (within -6 to -4 dB) |

4-1. SEMICONDUCTOR LEAD LAYOUTS

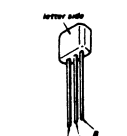
BA6138



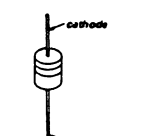
M5220P
M5238P
NJM4560D
 μ PC4558C



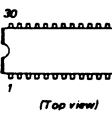
2SA1175
2SC2785
2SD1020



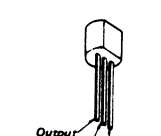
HZS6B1L
HZS6C3L
HZS7B2L
HZS9B2L
HZS11C3L
HZS241L
RD5.1JS-B1



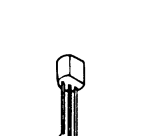
CX20174



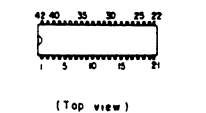
NJM78L12A



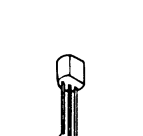
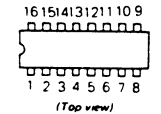
2SB1013
2SC1815GR
2SC3623A-L
2SD1387
2SD1388



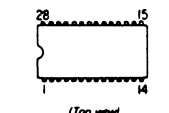
CX20188
MB88517B-228N



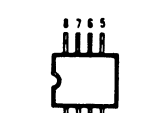
TC9142P



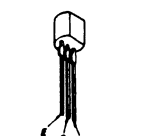
MSL9359RS
MSL9512RS



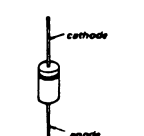
μ PC4558G-T1



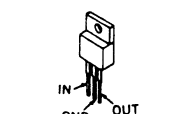
2SB1014



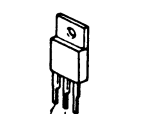
US1060M
1SS132
10E2N



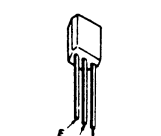
M5F78M10



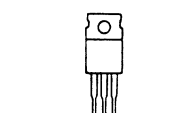
2SD1585-L



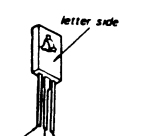
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



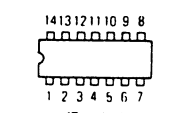
M5F79M10



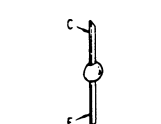
2SD809-K



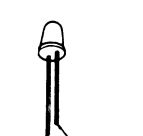
M4069UBP



PH102-K



BG5628S
BR5628S
EAA5638S



4-2. PRINTED WIRING BOARD—AUDIO SECTION—

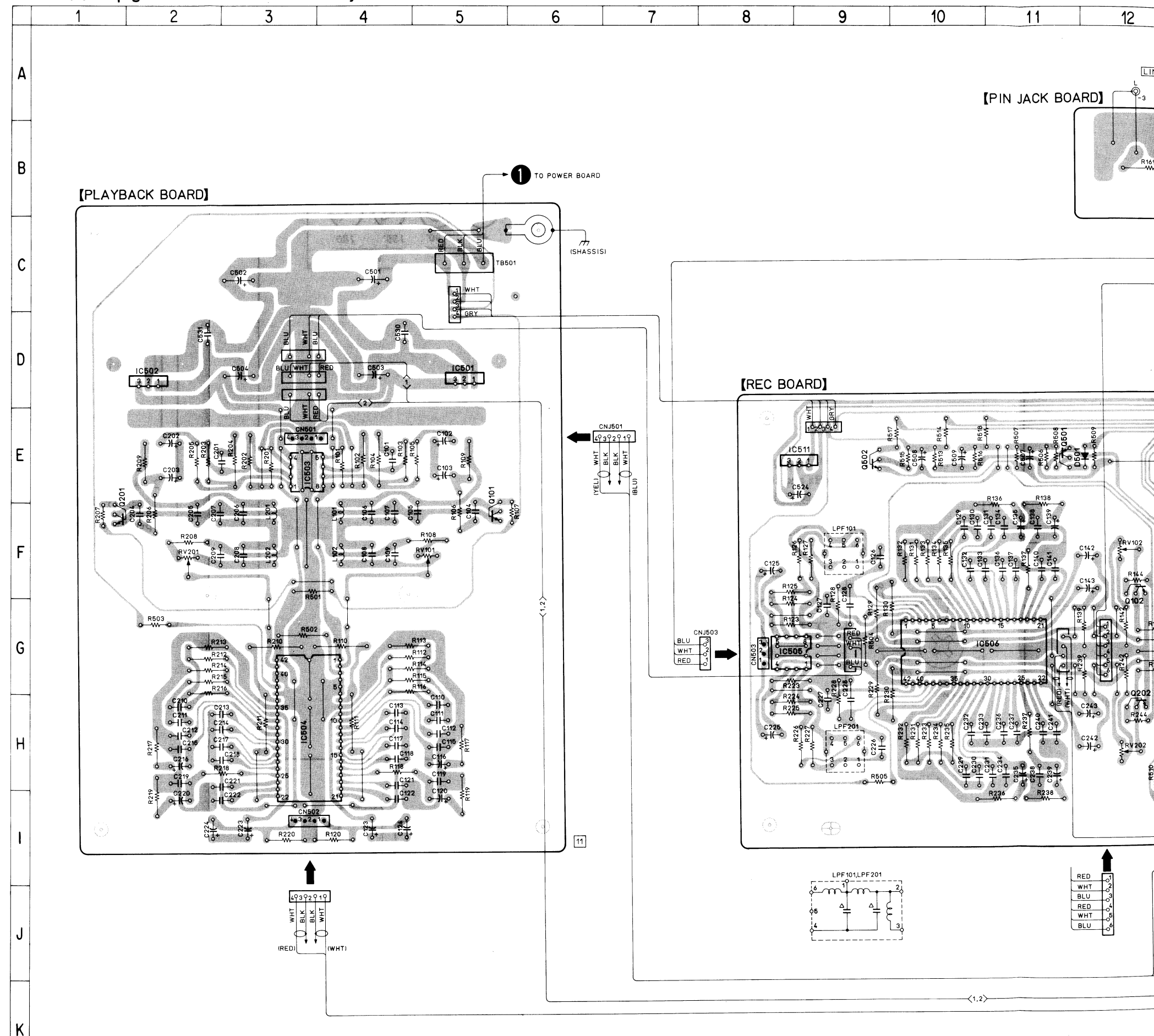
- Refer to page 16 for Semiconductor Lead Layouts.

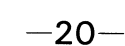
- **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| IC501 | D-5 | Q509 | F-16 |
| IC502 | D-2 | Q510 | F-15 |
| IC503 | E-3 | Q511 | F-15 |
| IC504 | H-3 | Q512 | G-15 |
| IC505 | G-8 | Q513 | F-15 |
| IC506 | G-10 | Q514 | E-18 |
| IC507 | G-14 | Q515 | G-25 |
| IC508 | H-18 | Q516 | C-22 |
| IC509 | F-18 | Q517 | C-22 |
| IC510 | H-23 | Q518 | C-23 |
| IC511 | E-8 | Q519 | C-22 |
| IC512 | C-25 | Q520 | C-22 |
| | | Q521 | C-23 |
| Q101 | F-5 | Q1001 | I-5 |
| Q102 | G-12 | Q1002 | J-4 |
| Q103 | F-13 | | |
| Q104 | F-13 | D501 | E-11 |
| Q105 | F-13 | D502 | F-15 |
| | | D503 | E-13 |
| Q106 | F-13 | D504 | E-13 |
| Q201 | F-1 | D505 | E-15 |
| Q202 | H-12 | | |
| Q203 | H-13 | D506 | E-15 |
| Q204 | H-13 | D507 | E-16 |
| | | D508 | E-15 |
| Q205 | H-13 | D509 | F-15 |
| Q206 | H-13 | D510 | F-16 |
| Q501 | E-11 | | |
| Q502 | E-9 | D511 | F-15 |
| Q503 | F-16 | D512 | F-17 |
| | | D513 | H-26 |
| Q504 | F-16 | D514 | B-22 |
| Q505 | F-15 | D515 | B-22 |
| Q506 | F-15 | D516 | C-24 |
| Q507 | F-16 | | |
| Q508 | F-16 | | |

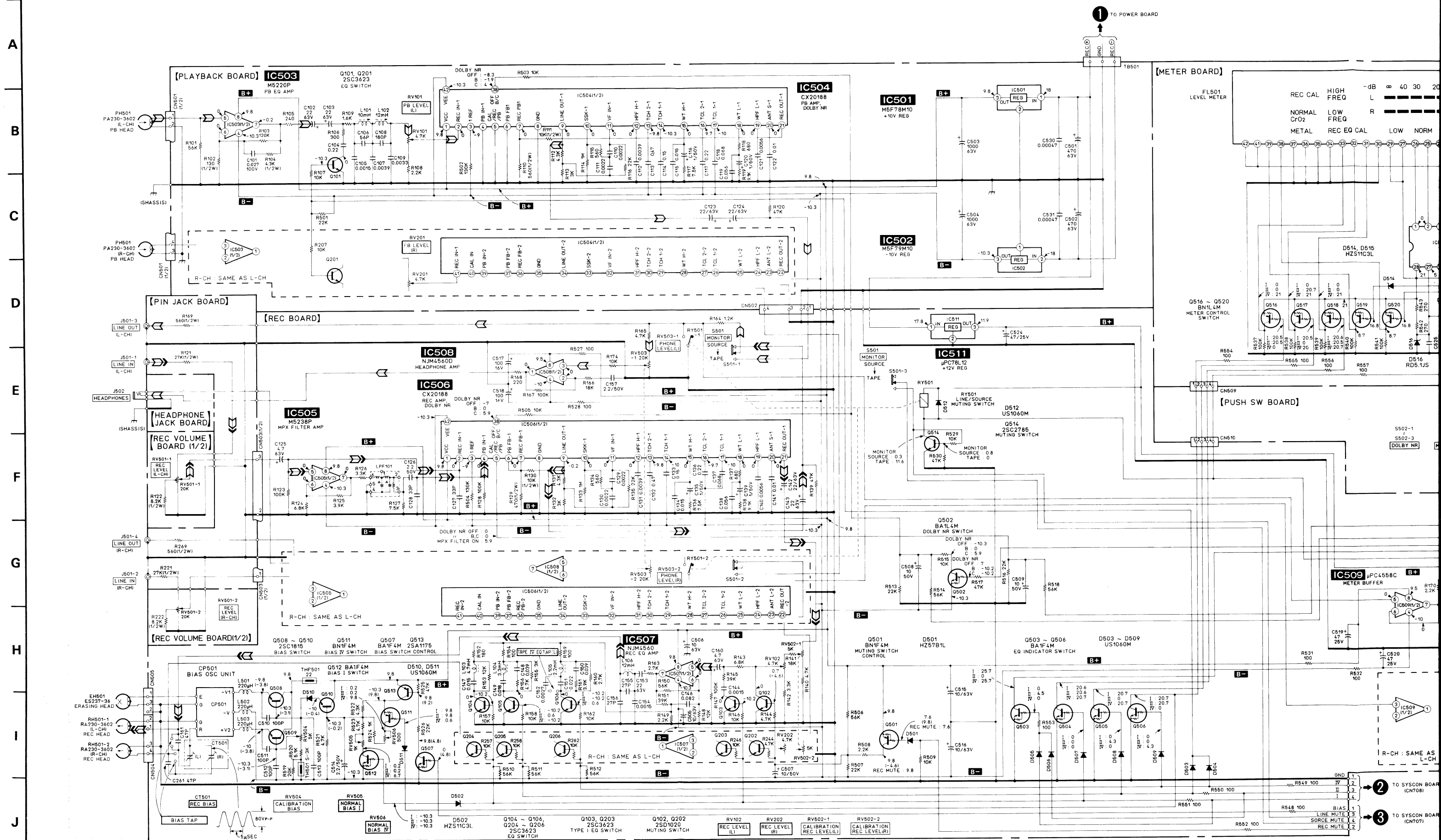
Note:

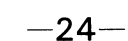
- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.





4-3. SCHEMATIC DIAGRAM—AUDIO SECTION—





4-4. PRINTED WIRING BOARD—SYSTEM CONTROL SECTION—

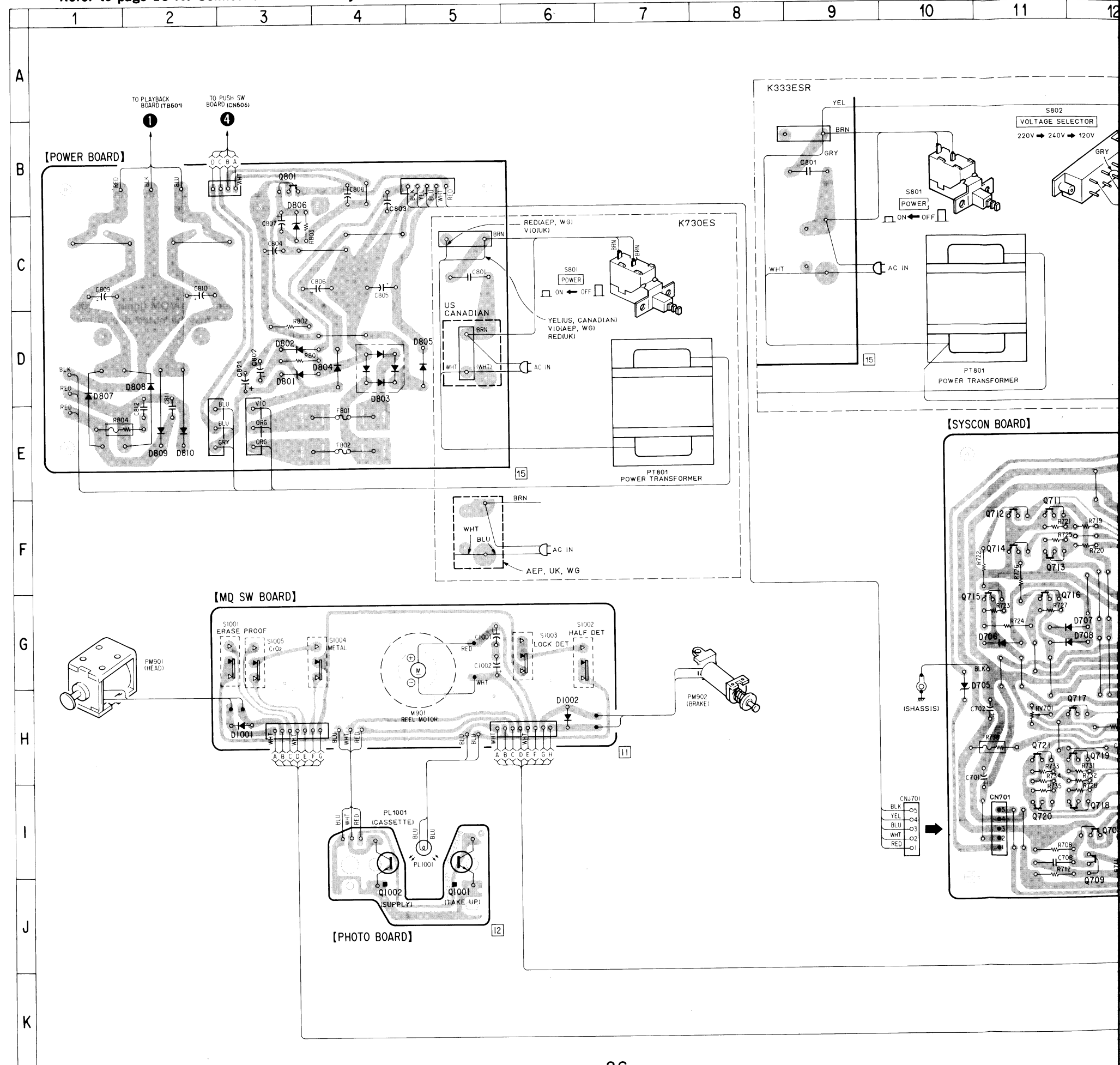
• Refer to page 16 for Semiconductor Lead Layouts.

• Semiconductor Location

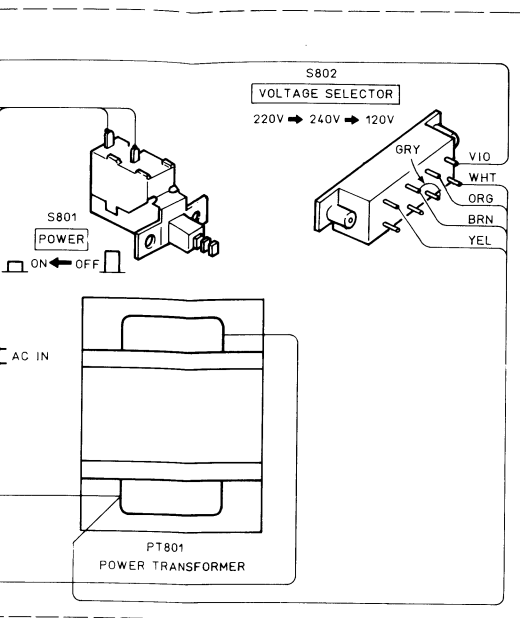
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| IC701 | F-16 | Q722 | H-16 |
| IC702 | H-15 | Q801 | B-3 |
| IC703 | I-16 | | |
| IC704 | I-17 | D701 | E-14 |
| IC705 | D-14 | D702 | G-13 |
| IC706 | F-23 | D703 | I-13 |
| IC901 | I-22 | D704 | G-14 |
| IC902 | J-23 | D705 | H-10 |
| | | D706 | G-11 |
| Q701 | F-13 | D707 | G-12 |
| Q702 | G-13 | D708 | G-12 |
| Q703 | I-13 | D709 | C-20 |
| Q704 | G-13 | D710 | C-22 |
| Q705 | H-13 | D711 | B-22 |
| Q706 | F-13 | D712 | F-17 |
| Q707 | G-13 | D713 | E-23 |
| Q708 | I-12 | D714 | H-16 |
| Q709 | J-12 | D801 | D-3 |
| Q710 | G-13 | D802 | D-3 |
| Q711 | F-11 | D803 | D-4 |
| Q712 | F-11 | D804 | D-4 |
| Q713 | F-11 | D805 | D-5 |
| Q714 | F-11 | D806 | B-3 |
| Q715 | G-11 | D807 | D-1 |
| Q716 | G-11 | D808 | D-2 |
| Q717 | H-12 | D809 | E-2 |
| Q718 | I-12 | D810 | E-2 |
| Q719 | H-12 | D1001 | H-3 |
| Q720 | I-11 | D1002 | H-6 |
| Q721 | H-11 | | |

Note:

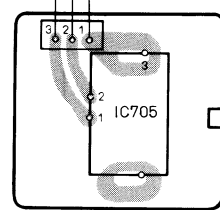
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.



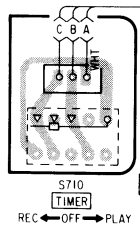
| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|



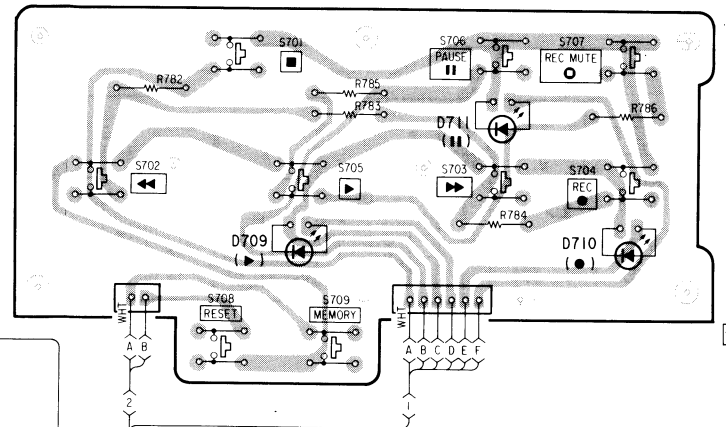
【REMOCON RECEIVER BOARD】



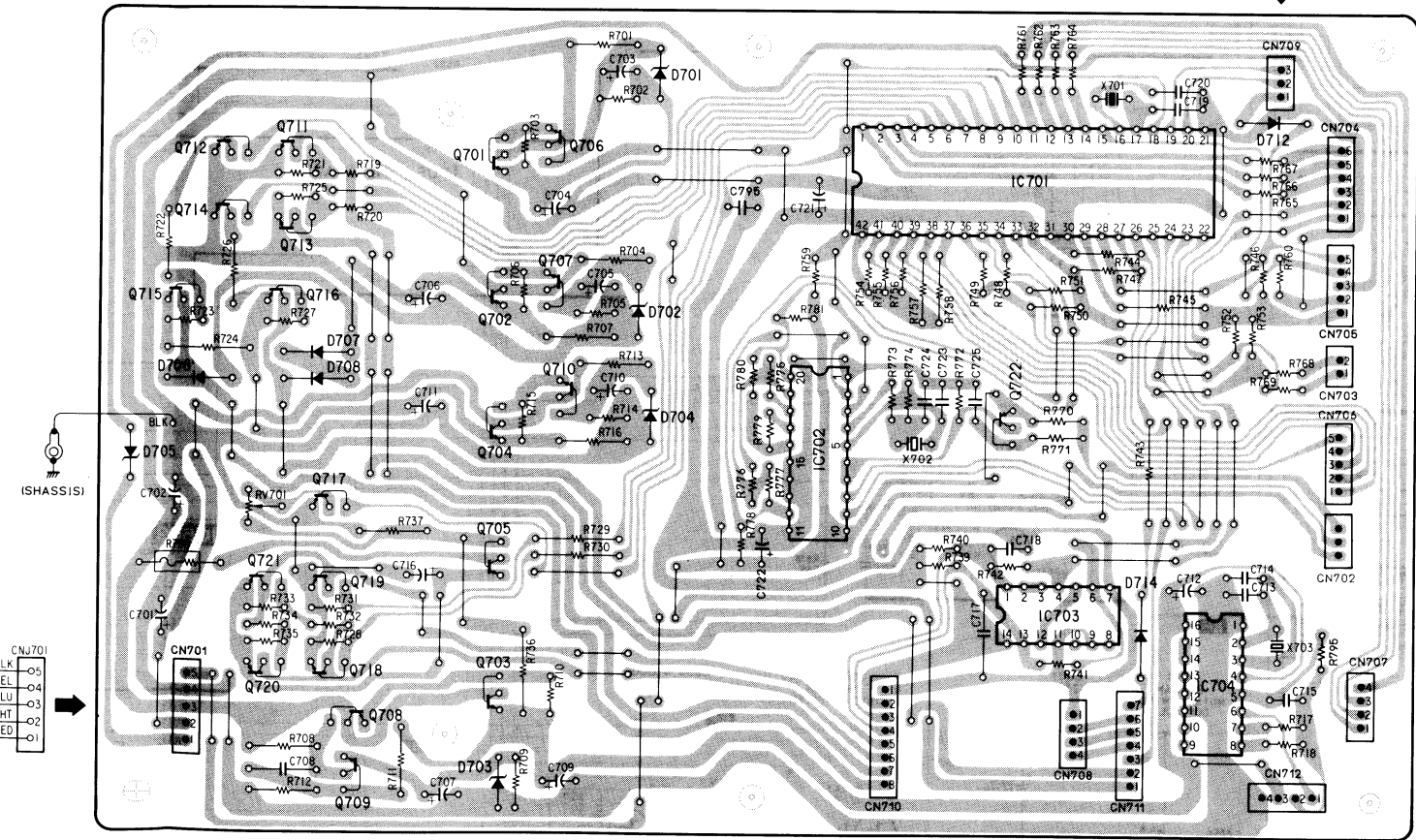
【TIMER SW BOARD】



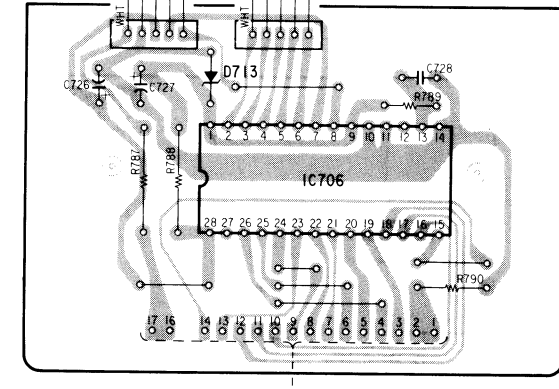
【CONTROL SW BOARD】



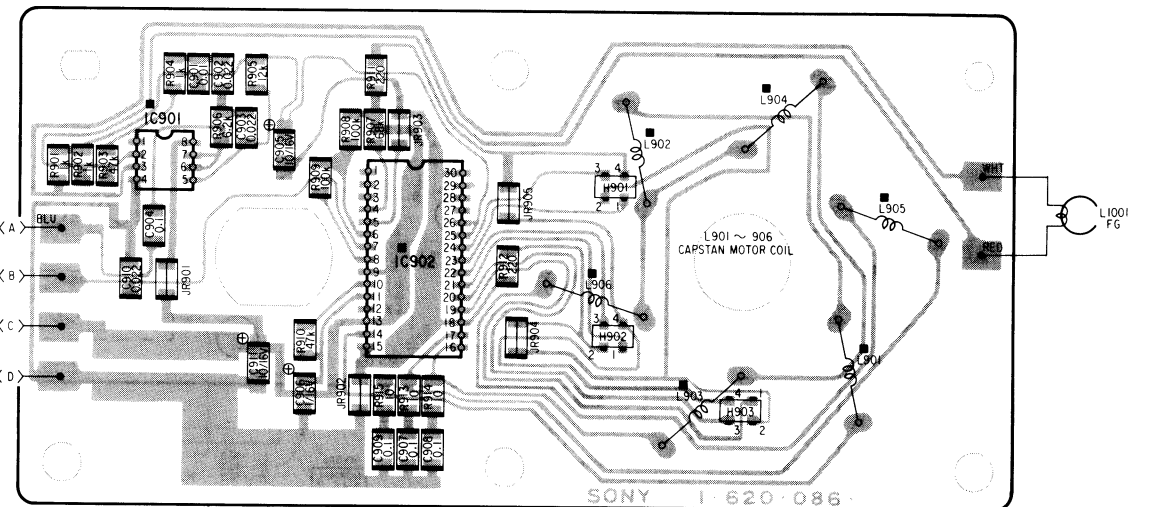
【SYSCON BOARD】

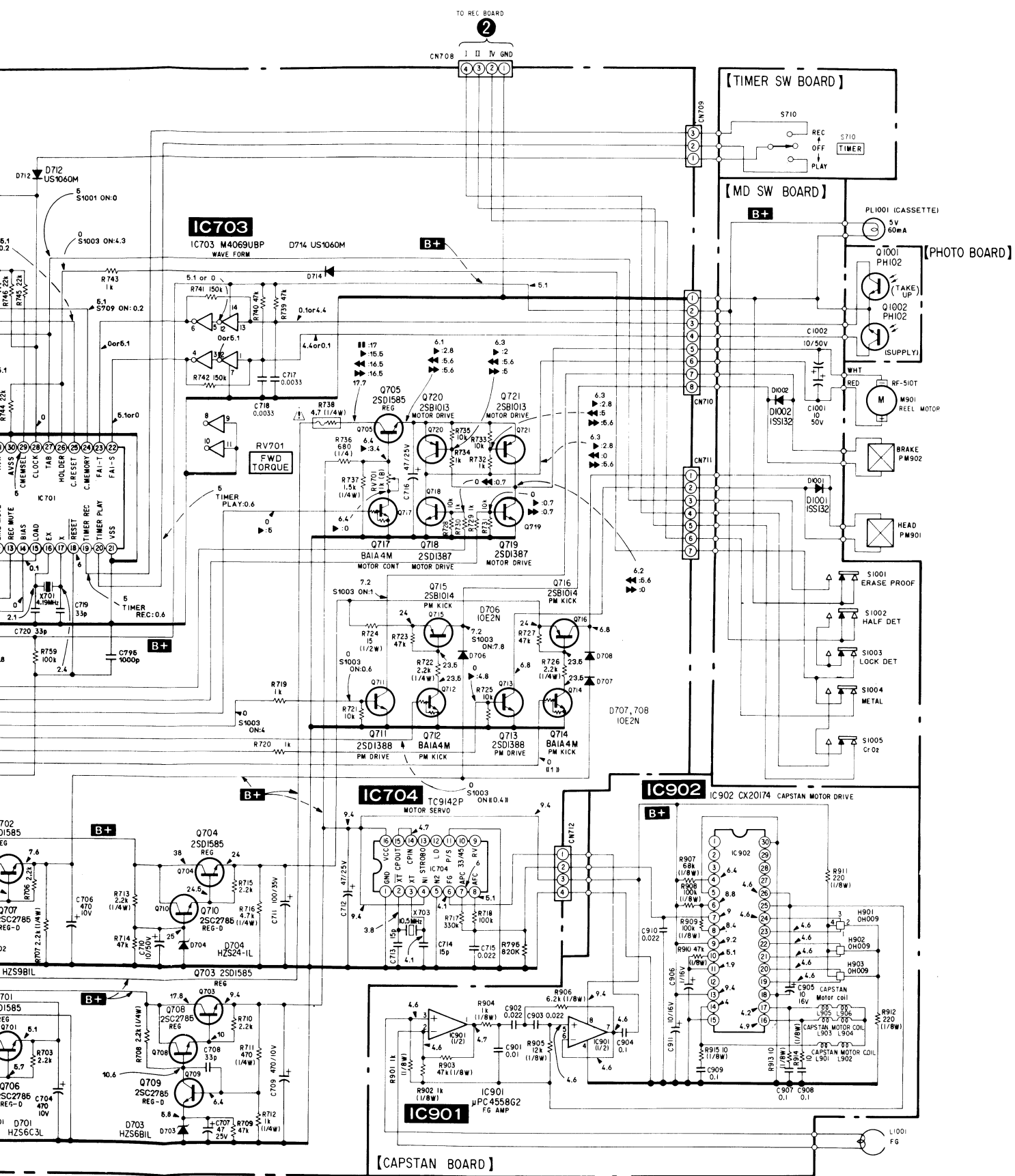


【COUNTER DISPLAY BOARD】



【CAPSTAN BOARD】





Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.
- **B+** : B+ Line
- **B-** : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: STOP
(()) : Momentary voltage in power switch ON.
- : PLAY : PAUSE
 : FF : REW : REC
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

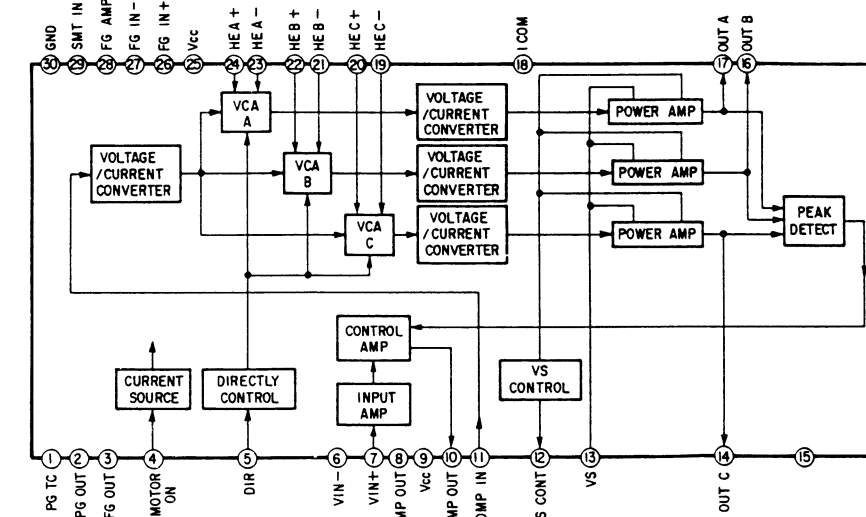
Note:

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:

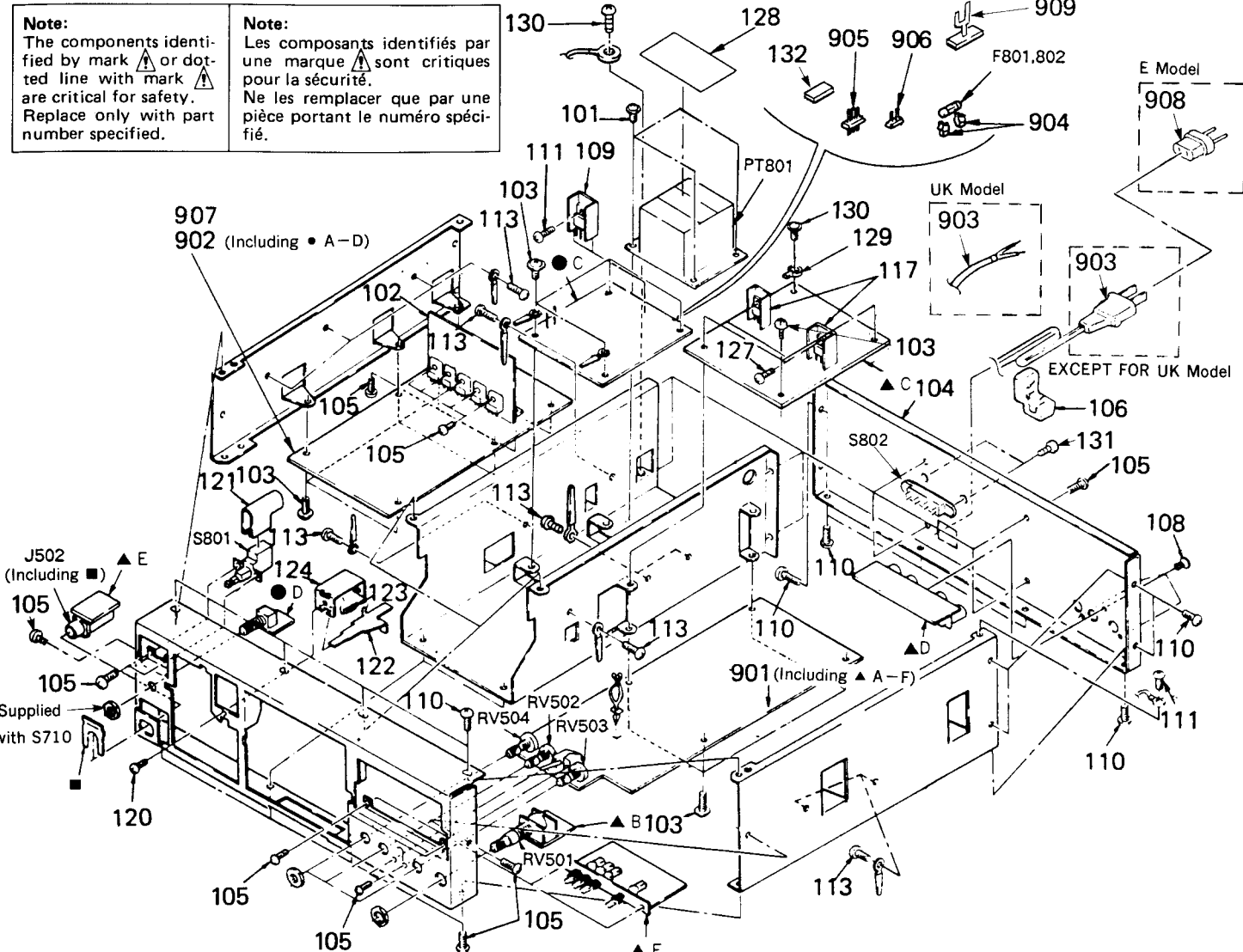
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

IC902 CX20174



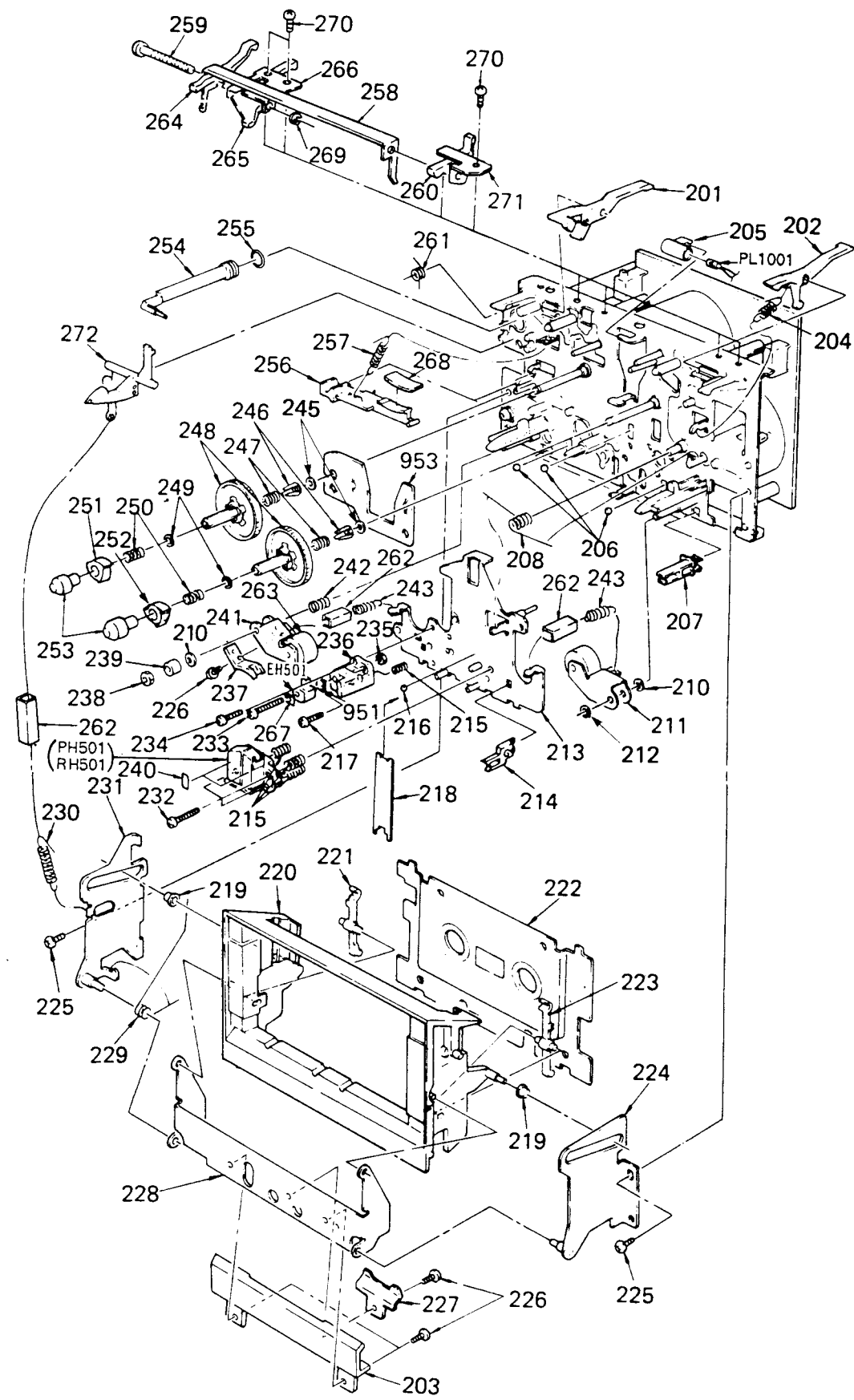
TC-K333ESR/K730ES

5-3. CHASSIS



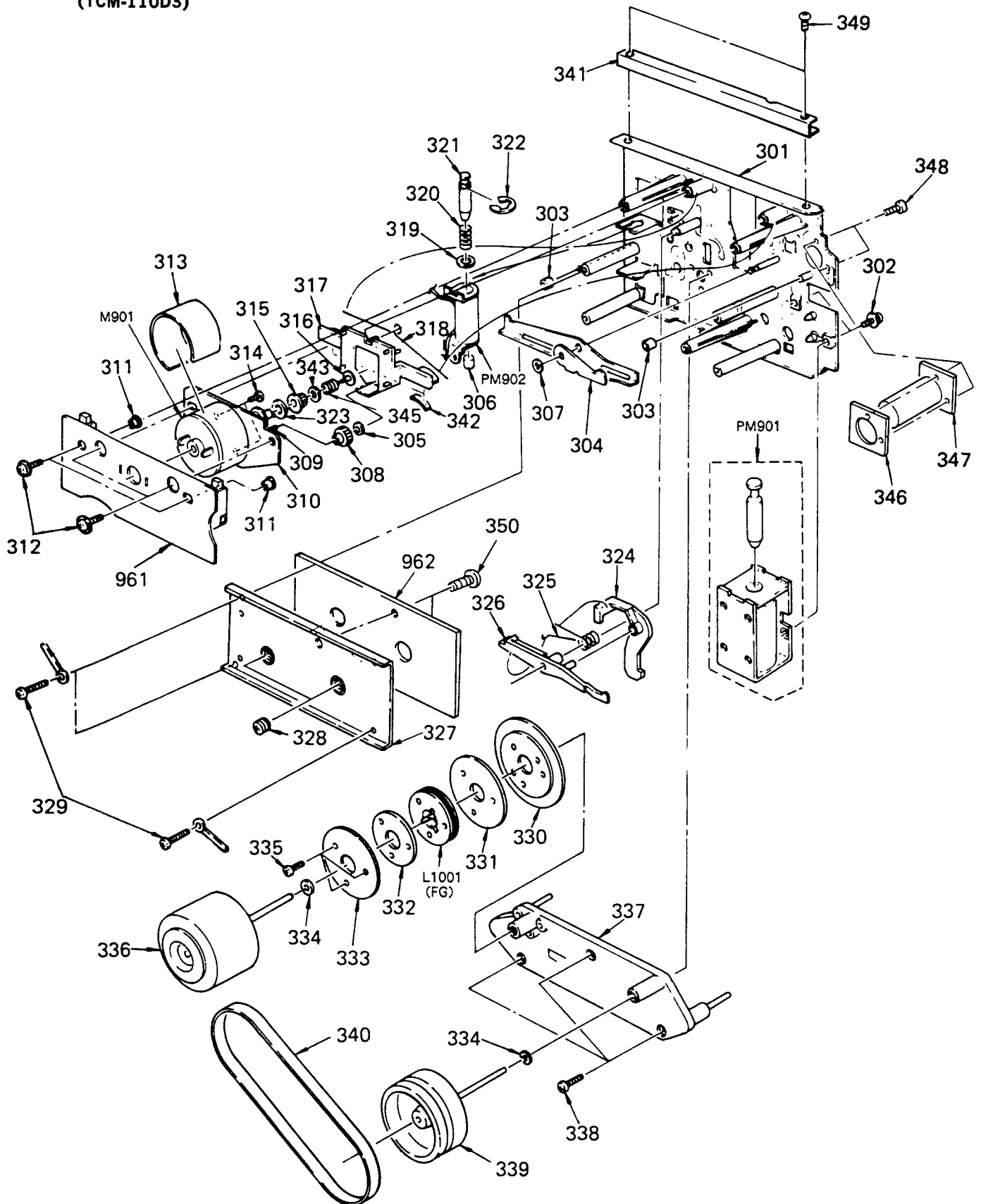
| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|---------------------------------|---------|-------|----------------|--|---------|
| 101 | 7-682-647-09 | SCREW +PSW 3X6 | | 902 | *A-2056-449-A | (US,Canadian,E) ...PC BOARD ASSY, SYSTEM CONTROL | |
| 102 | *3-304-987-01 | HEAT SINK | | | *A-2056-450-A | (AEP,UK)...PC BOARD ASSY, SYSTEM CONTROL | |
| 103 | 4-886-821-01 | SCREW, S TIGHT, +PTTWH 3X6 | | 903 | △.1-555-795-11 | (AEP).....CODE, POWER | |
| 104 | *3-318-658-11 | PLATE, JACK | | | △.1-556-035-00 | (UK).....CODE, POWER | |
| 105 | 7-682-547-09 | SCREW +BV 3X6, S TIGHT | | | △.1-559-297-21 | (E).....CODE, POWER | |
| 106 | 4-916-783-01 | BUSHING, CORD | | | △.1-559-479-11 | (US,Canadian)...CODE, POWER | |
| 108 | 3-646-090-11 | RIVET, NYLON | | 904 | △.1-533-162-00 | HOLDER, FUSE | |
| 109 | *4-861-002-00 | HEAT SINK | | 905 | *1-535-116-00 | TERMINAL | |
| 110 | 3-703-685-21 | SCREW (+BV 3X8) | | 906 | *1-535-139-00 | BASE POST 22MM (10MM PITCH) 2P | |
| 111 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | | 907 | *1-620-540-11 | PC BOARD, SYSTEM CONTROL | |
| 113 | 7-685-870-01 | SCREW +BVTT 3X5 (S) | | 908 | △.1-526-565-00 | (E)...AC PLUG ADAPTOR | |
| 117 | *4-363-146-00 | HEAT SINK, V.OUT | | 909 | 1-535-416-01 | (AEP,UK)...TERMINAL | |
| 120 | 7-685-861-09 | SCREW +BVTT 2.6X5 (S) | | F801 | △.1-532-259-00 | (AEP,UK,E).....FUSE, TIME-LAG (1.6A) | |
| 121 | 3-575-524-00 | COVER, POWER SWITCH | | F801 | △.1-532-742-11 | (US,Canadian)...FUSE, GLASS TUBE (1.6A) | |
| 122 | *3-318-628-01 | SLIDER, EJECT | | F802 | △.1-532-259-00 | (AEP,UK,E).....FUSE, TIME-LAG (1.6A) | |
| 123 | 3-534-238-XX | SPRING, TENSION | | F802 | △.1-532-742-11 | (US,Canadian)...FUSE, GLASS TUBE (1.6A) | |
| 124 | *3-575-502-00 | BRACKET, EJECT | | PT801 | △.1-448-948-11 | (US,Canadian)...TRANSFORMER, POWER | |
| 127 | 7-682-147-15 | SCREW, TR | | PT801 | △.1-448-949-11 | (AEP,UK).....TRANSFORMER, POWER | |
| 128 | *3-318-666-01 | LABEL, TRANSFORMER | | PT801 | △.1-449-005-11 | (E).....TRANSFORMER, POWER | |
| 129 | 4-870-539-00 | PLATE, GROUND | | S801 | △.1-554-920-11 | SWITCH, PUSH (AC POWER)(1 KEY) | |
| 130 | 4-886-821-11 | SCREW, S TIGHT, +PTTWH 3X6 | | S802 | △.1-570-307-11 | (E)...SWITCH, VOLTAGE CHANGE | |
| 131 | 7-685-646-79 | SCREW +BTP 3X8 TYPE2 N-S | | | | | |
| 132 | *3-701-947-13 | (AEP,UK,E)...LABEL (1.6A), FUSE | | | | | |
| 901 | *A-2010-295-A | PC BOARD ASSY, AUDIO | | | | | |

5-4. MECHANISM SECTION (1) (TCM-110D3)



| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-----------------------------|---------|--------|---------------|-------------------------------|---------|
| 201 | 3-575-449-00 | LEVER, DETECTION, REC | | 242 | 3-537-213-00 | SPRING, COMPRESSION | |
| 202 | 3-575-331-00 | LEVER, DETECTION, HALF | | 243 | 3-575-481-00 | SPRING, TENSION | |
| 203 | *3-318-406-11 | PLATE, ORNAMENTAL, HEAD | | 245 | 3-701-439-11 | WASHER | |
| 204 | 3-575-358-00 | SPRING, TENSION | | 246 | 3-318-405-01 | RETAINER, SPRING | |
| 205 | 3-575-328-00 | HOLDER, LAMP | | 247 | 3-571-850-11 | SPRING, COMPRESSION | |
| 206 | 7-671-112-11 | BALL, STEEL | | 248 | 3-318-438-01 | TABLE, REEL | |
| 207 | *3-575-378-00 | GUIDE, LEAD | | 249 | 3-558-708-11 | WASHER, STOPPER | |
| 208 | 3-575-351-00 | SPRING | | 250 | 3-576-921-00 | SPRING, COMPRESSION | |
| 210 | 3-701-439-21 | WASHER | | 251 | 3-531-760-00 | CLAW, REEL SPINDLE | |
| 211 | X-3575-380-1 | PINCH LEVER (T) ASSY | | 252 | 3-558-339-00 | CLAW (R), REEL TABLE | |
| 212 | 7-624-105-04 | STOP RING 2.3, TYPE -E | | 253 | 3-576-983-01 | CAP, REEL | |
| 213 | X-3575-323-0 | CHASSIS ASSY, HEAD | | 254 | 3-575-459-00 | PISTON | |
| 214 | *3-304-963-00 | RETAINER, LEAD | | 255 | 3-575-392-00 | RING, PISTON | |
| 215 | 3-564-121-00 | SPRING, COMPRESSION | | 256 | X-3575-310-0 | LEVER ASSY, TENSION, BACK | |
| 216 | 7-671-113-11 | BALL, STEEL | | 257 | 3-307-381-00 | SPRING, TENSION | |
| 217 | 7-621-775-20 | SCREW +B 2.6X5 | | 258 | *3-306-279-00 | LEVER, ERASING PROTECTION | |
| 218 | *3-575-377-00 | SPRING | | 259 | *3-306-281-00 | SHAFT, DETECTION LEVER | |
| 219 | 3-575-348-00 | ROLLER, GUIDE, THREADING | | 260 | *3-306-282-00 | LEVER, REC DETECTION, REVERSE | |
| 220 | 3-575-355-31 | HOLDER, CASSETTE | | 261 | 3-318-408-01 | SPRING | |
| 221 | 3-555-114-00 | SPRING (LEFT) | | 262 | 9-9J11-815-02 | CUSHION | |
| 222 | X-3575-399-1 | PLATE ASSY, ORNAMENTAL | | 264 | 3-575-438-00 | LEVER, DETECTION | |
| 223 | 3-555-113-00 | SPRING (RIGHT) | | 265 | 3-575-446-00 | LEVER, DETECTION, METAL | |
| 224 | *X-3575-339-0 | PLATE (RIGHT) ASSY, FULCRUM | | 266 | *3-575-440-00 | BRACKET, LEVER, DETECTION | |
| 225 | 7-621-770-87 | SCREW +PTT 2.6X5 (S) | | 267 | 3-318-433-01 | SPRING | |
| 226 | 7-621-772-10 | SCREW +B 2X4 | | 268 | 3-575-346-01 | FELT, BREKE | |
| 227 | 3-304-639-00 | PLATE, SHIELD, HEAD | | 269 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |
| 228 | 3-306-215-00 | LEVER, FULCRUM, HOLDER | | 270 | 7-685-870-01 | SCREW +BVTT 3X5 (S) | |
| 229 | 3-575-356-00 | SPRING | | 271 | *X-3575-364-0 | BRACKET ASSY, LEVER | |
| 230 | 3-575-364-00 | SPRING, TENSION | | 272 | 3-575-448-00 | LEVER, LOCK | |
| 231 | *X-3575-338-0 | PLATE (LEFT) ASSY, FULCRUM | | 951 | *1-608-268-00 | PC BOARD, ERASE HEAD | |
| 232 | 7-621-771-06 | SCREW, LOCK | | 953 | *1-603-823-00 | PC BOARD, PHOTO | |
| 233 | 7-621-772-88 | SCREW +B 2X16 | | EH501 | 1-543-358-11 | HEAD, MAGNETIC (ERASE) | |
| 234 | 7-621-772-20 | SCREW +B 2X5 | | PH501 | 8-825-770-51 | HEAD, REC/PB RPA230-3602C | |
| 235 | 7-622-205-05 | NUT M2 TYPE2 | | | | (including RH501) | |
| 236 | *3-306-216-00 | BRACKET, HEAD, ERASE | | PL1001 | 1-518-313-00 | LAMP, PILOT | |
| 237 | 3-564-138-00 | GUIDE (S), TAPE | | | | | |
| 238 | 7-684-023-04 | N 3, TYPE 2 | | | | | |
| 239 | 3-491-191-00 | COLLAR | | | | | |
| 241 | X-3575-321-0 | PINCH LEVER (S) ASSY | | | | | |

5-5. MECHANISM SECTION (2)
(TCM-110D3)



| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-------------------------------|---------|-------|---------------|-------------------------|---------|
| 301 | *X-3306-201-1 | CHASSIS ASSY, MECHANICAL | | 328 | 3-489-073-00 | SCREW, THRUST | |
| 302 | 7-682-649-09 | SCREW +PSW 3X10 | | 329 | 7-682-647-09 | SCREW +PS 3X6 | |
| 304 | *3-306-260-00 | LEVER, FWD | | 330 | *3-310-831-01 | PLATE, SHIELD, MOTOR | |
| 305 | 3-558-708-01 | WASHER, STOPPER | | 331 | *3-576-810-00 | PLATE, RETURN CIRCUIT | |
| 306 | 3-575-416-11 | ARBOR, FIXED | | 332 | 3-310-865-00 | WASHER, INSULATING | |
| 307 | 3-558-708-11 | WASHER, STOPPER | | 333 | 3-576-961-11 | PLATE, FG | |
| 308 | 3-575-332-00 | GEAR, FR | | 334 | 3-701-438-21 | WASHER | |
| 309 | 3-575-304-00 | SHAFT, GEAR, FR | | 335 | 7-621-775-60 | SCREW +B 2.6X12 | |
| 311 | 3-306-277-00 | LIFTER, PC BOARD | | 336 | X-3575-377-1 | FLYWHEEL (TAKE-UP) ASSY | |
| 312 | 7-685-646-79 | SCREW, TOTSU PTPWH 3X8, TYPE2 | | 337 | X-3575-383-1 | BASE ASSY, CAPSTAN | |
| 313 | 3-306-209-00 | PLATE (D), SHIELD, MOTOR | | 338 | 7-621-770-87 | SCREW +PTT 2.6X5 (S) | |
| 314 | 7-621-775-10 | SCREW +B 2.6X4 | | 339 | X-3575-378-1 | FLYWHEEL (SUPPLY) ASSY | |
| 315 | 3-575-324-00 | GEAR, LIMITER | | 340 | 3-576-812-00 | BELT, CAPSTAN | |
| 316 | 3-575-327-00 | STOPPER | | 341 | *3-318-437-01 | BRACKET, MD | |
| 317 | *X-3575-342-0 | PLATE ASSY, BRAKE | | 342 | 3-575-469-00 | SHOE, BRAKE | |
| 318 | 3-575-345-00 | SPRING | | 343 | 3-701-441-11 | WASHER | |
| 319 | 3-701-444-11 | WASHER, 6 | | 344 | 3-701-748-00 | CLAMP | |
| 320 | 3-575-414-00 | SPRING, COMPRESSION | | 345 | 3-575-487-01 | SPRING, COMPRESSION | |
| 321 | 3-575-415-11 | ARBOR, MOVABLE | | 346 | *3-318-439-01 | BRACKET | |
| 322 | 7-624-109-04 | STOP RING 5.0, TYPE -E | | 347 | *3-318-440-01 | CYLINDER | |
| 323 | 3-564-027-11 | FELT, LIMITER | | 961 | *1-620-542-11 | PC BOARD, MD SWITCH | |
| 324 | 3-575-318-00 | LEVER, LOCK, TUNING | | 962 | *1-620-086-11 | PC BOARD, CAPSTAN | |
| 325 | 3-575-458-00 | SPRING | | M901 | X-3575-382-1 | MOTOR ASSY, REEL | |
| 326 | 3-575-460-00 | LEVER, SELECT TUNE | | PM901 | 1-454-333-00 | SOLENOID, PLUNGER | |
| 327 | X-3306-202-1 | RETAINER ASSY, THRUST | | PM902 | 1-454-291-00 | SOLENOID, PLUNGER | |

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.


Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description | Ref.No. | Part No. | Description |
|---------|-----------------------|--|---------|--------------|-----------------------|
| 901 | *A-2010-295-A | PC BOARD ASSY, AUDIO | C128 | 1-162-211-31 | CERAMIC 33PF 5% 50V |
| 902 | *A-2056-449-A | (US,Canadian,E) ...PC BOARD ASSY, SYSTEM CONTROL | C129 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V |
| | *A-2056-450-A | (AEP,UK)...PC BOARD ASSY, SYSTEM CONTROL | C130 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V |
| 903 | Δ 1-555-795-11 | (AEP).....CODE, POWER | C131 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V |
| | Δ 1-556-035-00 | (UK).....CODE, POWER | C132 | 1-136-173-00 | FILM 0.47MF 5% 50V |
| | Δ 1-559-297-21 | (E).....CODE, POWER | C133 | 1-136-167-00 | FILM 0.15MF 5% 50V |
| | Δ 1-559-479-11 | (US,Canadian)...CODE, POWER | C134 | 1-136-155-00 | FILM 0.015MF 5% 50V |
| 904 | Δ 1-533-162-00 | HOLDER, FUSE | C135 | 1-123-380-00 | ELECT 1MF 20% 50V |
| 905 | *1-535-116-00 | TERMINAL | C136 | 1-136-169-00 | FILM 0.22MF 5% 50V |
| 906 | *1-535-139-00 | BASE POST 22MM (10MM PITCH) 2P | C137 | 1-136-163-00 | FILM 0.068MF 5% 50V |
| 907 | *1-620-540-11 | PC BOARD, SYSTEM CONTROL | C138 | 1-136-162-00 | FILM 0.056MF 5% 50V |
| 908 | Δ 1-526-565-00 | (E)...AC PLUG ADAPTOR | C139 | 1-123-380-00 | ELECT 1MF 20% 50V |
| 909 | 1-535-416-01 | (AEP,UK)...TERMINAL | C140 | 1-130-480-00 | MYLAR 0.0056MF 5% 50V |
| 951 | *1-608-268-00 | PC BOARD, ERASE HEAD | C141 | 1-136-153-00 | FILM 0.01MF 5% 50V |
| 953 | *1-603-823-00 | PC BOARD, PHOTO | C142 | 1-124-929-11 | ELECT 22MF 20% 63V |
| 961 | *1-620-542-11 | PC BOARD, MD SWITCH | C143 | 1-124-929-11 | ELECT 22MF 20% 63V |
| 962 | *1-620-086-11 | PC BOARD, CAPSTAN | C144 | 1-130-473-00 | MYLAR 0.0015MF 5% 50V |
| C101 | 1-130-893-00 | FILM 0.027MF 3% 100V | C146 | 1-136-164-00 | FILM 0.082MF 5% 50V |
| C102 | 1-124-929-11 | ELECT 22MF 20% 63V | C147 | 1-136-155-00 | FILM 0.015MF 5% 50V |
| C103 | 1-124-929-11 | ELECT 22MF 20% 63V | C148 | 1-136-160-00 | FILM 0.039MF 5% 50V |
| C104 | 1-136-169-00 | FILM 0.22MF 5% 50V | C149 | 1-136-156-00 | FILM 0.018MF 5% 50V |
| C105 | 1-130-473-00 | MYLAR 0.0015MF 5% 50V | C150 | 1-136-160-00 | FILM 0.039MF 5% 50V |
| C106 | 1-107-165-00 | MICA 56PF 5% 500V | C151 | 1-136-157-00 | FILM 0.022MF 5% 50V |
| C107 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V | C152 | 1-130-476-00 | MYLAR 0.0027MF 5% 50V |
| C108 | 1-109-619-00 | MICA 180PF 5% 500V | C153 | 1-124-929-11 | ELECT 22MF 20% 63V |
| C109 | 1-130-477-00 | MYLAR 0.0033MF 5% 50V | C154 | 1-130-473-00 | MYLAR 0.0015MF 5% 50V |
| C110 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V | C155 | 1-107-157-00 | MICA 27PF 5% 500V |
| C111 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V | C156 | 1-107-157-00 | MICA 27PF 5% 500V |
| C112 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V | C157 | 1-124-767-00 | ELECT 2.2MF 20% 50V |
| C113 | 1-136-173-00 | FILM 0.47MF 5% 50V | C158 | 1-124-925-11 | ELECT 2.2MF 20% 50V |
| C114 | 1-136-167-00 | FILM 0.15MF 5% 50V | C159 | 1-124-927-11 | ELECT 4.7MF 20% 50V |
| C115 | 1-136-155-00 | FILM 0.015MF 5% 50V | C160 | 1-123-369-00 | ELECT 4.7MF 20% 63V |
| C116 | 1-123-380-00 | ELECT 1MF 20% 50V | C161 | 1-107-163-00 | MICA 47PF 5% 500V |
| C117 | 1-136-169-00 | FILM 0.22MF 5% 50V | C201 | 1-130-893-00 | FILM 0.027MF 3% 100V |
| C118 | 1-136-163-00 | FILM 0.068MF 5% 50V | C202 | 1-124-929-11 | ELECT 22MF 20% 63V |
| C119 | 1-136-162-00 | FILM 0.056MF 5% 50V | C203 | 1-124-929-11 | ELECT 22MF 20% 63V |
| C120 | 1-123-380-00 | ELECT 1MF 20% 50V | C204 | 1-136-169-00 | FILM 0.22MF 5% 50V |
| C121 | 1-130-480-00 | MYLAR 0.0056MF 5% 50V | C205 | 1-130-473-00 | MYLAR 0.0015MF 5% 50V |
| C122 | 1-136-153-00 | FILM 0.01MF 5% 50V | C206 | 1-107-165-00 | MICA 56PF 5% 500V |
| C123 | 1-124-929-11 | ELECT 22MF 20% 63V | C207 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V |
| C124 | 1-124-929-11 | ELECT 22MF 20% 63V | C208 | 1-109-619-00 | MICA 180PF 5% 500V |
| C125 | 1-123-369-00 | ELECT 4.7MF 20% 63V | C209 | 1-130-477-00 | MYLAR 0.0033MF 5% 50V |
| C126 | 1-124-767-00 | ELECT 2.2MF 20% 50V | C210 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V |
| C127 | 1-107-159-00 | MICA 33PF 5% 500V | C211 | 1-130-475-00 | MYLAR 0.0022MF 5% 50V |
| | | | C212 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V |

| Ref.No. | Part No. | Description | | | | Ref.No. | Part No. | Description | | | |
|---------|--------------|-------------|----------|-----|------|---------|--------------|-------------|----------|-----|------|
| C213 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | C510 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C214 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V | C511 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C215 | 1-136-155-00 | FILM | 0.015MF | 5% | 50V | C512 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C216 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | C513 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C217 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | C514 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C218 | 1-136-163-00 | FILM | 0.068MF | 5% | 50V | C515 | 1-124-915-11 | ELECT | 10MF | 20% | 63V |
| C219 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V | C516 | 1-124-915-11 | ELECT | 10MF | 20% | 63V |
| C220 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | C517 | 1-123-333-00 | ELECT | 100MF | 20% | 16V |
| C221 | 1-130-480-00 | MYLAR | 0.0056MF | 5% | 50V | C518 | 1-123-333-00 | ELECT | 100MF | 20% | 16V |
| C222 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V | C519 | 1-123-332-00 | ELECT | 47MF | 20% | 25V |
| C223 | 1-124-929-11 | ELECT | 22MF | 20% | 63V | C520 | 1-123-332-00 | ELECT | 47MF | 20% | 25V |
| C224 | 1-124-929-11 | ELECT | 22MF | 20% | 63V | C521 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C225 | 1-123-369-00 | ELECT | 4.7MF | 20% | 63V | C523 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C226 | 1-124-767-00 | ELECT | 2.2MF | 20% | 50V | C524 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C227 | 1-107-159-00 | MICA | 33PF | 5% | 500V | C525 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C228 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V | C526 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C229 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | C527 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C230 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | C528 | 1-131-368-00 | TANTALUM | 3.3MF | 20% | 16V |
| C231 | 1-130-478-00 | MYLAR | 0.0039MF | 5% | 50V | C529 | 1-136-802-11 | FILM | 0.015MF | 5% | 100V |
| C232 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | C530 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C233 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V | C531 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C234 | 1-136-155-00 | FILM | 0.015MF | 5% | 50V | C701 | 1-124-911-11 | ELECT | 220MF | 20% | 50V |
| C235 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | C702 | 1-124-557-11 | ELECT | 1000MF | 20% | 25V |
| C236 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | C703 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C237 | 1-136-163-00 | FILM | 0.068MF | 5% | 50V | C704 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C238 | 1-136-162-00 | FILM | 0.056MF | 5% | 50V | C705 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C239 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | C706 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C240 | 1-130-480-00 | MYLAR | 0.0056MF | 5% | 50V | C707 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C241 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V | C708 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C242 | 1-124-929-11 | ELECT | 22MF | 20% | 63V | C709 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C243 | 1-124-929-11 | ELECT | 22MF | 20% | 63V | C710 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C244 | 1-130-473-00 | MYLAR | 0.0015MF | 5% | 50V | C711 | 1-124-122-11 | ELECT | 100MF | 20% | 35V |
| C246 | 1-136-164-00 | FILM | 0.082MF | 5% | 50V | C712 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C247 | 1-136-155-00 | FILM | 0.015MF | 5% | 50V | C713 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C248 | 1-136-160-00 | FILM | 0.039MF | 5% | 50V | C714 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C249 | 1-136-156-00 | FILM | 0.018MF | 5% | 50V | C715 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V |
| C250 | 1-136-160-00 | FILM | 0.039MF | 5% | 50V | C716 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C251 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V | C717 | 1-161-327-00 | CERAMIC | 0.0033MF | 20% | 16V |
| C252 | 1-130-476-00 | MYLAR | 0.0027MF | 5% | 50V | C718 | 1-161-327-00 | CERAMIC | 0.0033MF | 20% | 16V |
| C253 | 1-124-929-11 | ELECT | 22MF | 20% | 63V | C719 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C254 | 1-130-473-00 | MYLAR | 0.0015MF | 5% | 50V | C720 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C255 | 1-107-157-00 | MICA | 27PF | 5% | 500V | C721 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C256 | 1-107-157-00 | MICA | 27PF | 5% | 500V | C722 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C257 | 1-124-767-00 | ELECT | 2.2MF | 20% | 50V | C723 | 1-162-284-31 | CERAMIC | 150PF | 10% | 50V |
| C258 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V | C724 | 1-162-284-31 | CERAMIC | 150PF | 10% | 50V |
| C259 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | C725 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C260 | 1-123-369-00 | ELECT | 4.7MF | 20% | 63V | C726 | 1-124-477-11 | ELECT | 47MF | 20% | 25V |
| C261 | 1-107-163-00 | MICA | 47PF | 5% | 500V | C727 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C501 | 1-123-377-00 | ELECT | 470MF | 20% | 63V | C728 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C502 | 1-123-377-00 | ELECT | 470MF | 20% | 63V | C795 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C503 | 1-123-378-00 | ELECT | 1000MF | 20% | 63V | C801 | 1-161-744-00 | CERAMIC | 0.01MF | | 400V |
| C504 | 1-123-378-00 | ELECT | 1000MF | 20% | 63V | C802 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C505 | 1-124-915-11 | ELECT | 10MF | 20% | 63V | C803 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C506 | 1-124-915-11 | ELECT | 10MF | 20% | 63V | C804 | 1-124-911-11 | ELECT | 220MF | 20% | 50V |
| C507 | 1-123-875-11 | ELECT | 10MF | 20% | 50V | C805 | 1-124-637-11 | ELECT | 1000MF | 20% | 50V |
| C508 | 1-123-875-11 | ELECT | 10MF | 20% | 50V | C806 | 1-124-636-00 | ELECT | 3300MF | 20% | 25V |
| C509 | 1-123-875-11 | ELECT | 10MF | 20% | 50V | C807 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |



| Ref.No. | Part No. | Description | | | | | Ref.No. | Part No. | Description |
|---------|---------------|------------------------|---------|-----|-----|--|---------|----------------|---|
| C808 | 1-124-122-11 | ELECT | 100MF | 20% | 35V | | D513 | 8-719-114-29 | DIODE RD5.1JS |
| C809 | 1-126-129-11 | ELECT | 6800MF | 20% | 35V | | D514 | 8-719-933-71 | DIODE HZS11C3L |
| C810 | 1-126-129-11 | ELECT | 6800MF | 20% | 35V | | D515 | 8-719-933-71 | DIODE HZS11C3L |
| C811 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | D516 | 8-719-114-29 | DIODE RD5.1JS |
| C812 | 1-136-177-00 | FILM | 1MF | 5% | 50V | | D701 | 8-719-933-41 | DIODE HZS6C3L |
| C821 | 1-124-443-00 | ELECT | 100MF | 20% | 10V | | D702 | 8-719-933-57 | DIODE HZS9B1L |
| C901 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | 10% | 50V | | D703 | 8-719-933-36 | DIODE HZS6B1L |
| C902 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V | | D704 | 8-719-934-13 | DIODE HZS24-1L |
| C903 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V | | D705 | 8-719-114-29 | DIODE RD5.1JSB1 |
| C904 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V | | D706 | 8-719-200-77 | DIODE 10E2N |
| C905 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V | | D707 | 8-719-200-77 | DIODE 10E2N |
| C906 | 1-135-091-00 | TANTAL. CHIP | 1MF | 10% | 16V | | D708 | 8-719-200-77 | DIODE 10E2N |
| C907 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V | | D709 | 8-719-900-79 | DIODE BG5628S (▶) |
| C908 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V | | D710 | 8-719-956-28 | DIODE BR5628S (■) |
| C909 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V | | D711 | 8-719-913-47 | DIODE EAA5638S (●) |
| C910 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V | | D712 | 8-719-912-29 | DIODE 1SS120 |
| C911 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V | | D713 | 8-719-114-29 | DIODE RD5.1JSB1 |
| C1001 | 1-123-875-11 | ELECT | 10MF | 20% | 50V | | D714 | 8-719-912-20 | DIODE 1SS120 |
| C1002 | 1-123-875-11 | ELECT | 10MF | 20% | 50V | | D801 | 8-719-114-19 | DIODE RD5.1JSB1 |
| CN501 | *1-560-062-00 | PIN, CONNECTOR 4P | | | | | D802 | 8-719-912-20 | DIODE 1SS120 |
| CN502 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | | | D803 | 8-719-504-60 | DIODE S2VB20 |
| CN503 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | | | D804 | 8-719-200-77 | DIODE 10E2N |
| CN504 | *1-560-062-00 | PIN, CONNECTOR 4P | | | | | D805 | 8-719-200-77 | DIODE 10E2N |
| CN505 | *1-560-061-00 | PIN, CONNECTOR 3P | | | | | D806 | 8-719-934-18 | DIODE HZS27-2L |
| CN506 | *1-564-338-61 | PIN, CONNECTOR 4P | | | | | D807 | 8-719-230-02 | DIODE 30D4 |
| CN507 | *1-564-340-00 | PIN, CONNECTOR 6P | | | | | D808 | 8-719-230-02 | DIODE 30D4 |
| CN508 | *1-564-340-71 | PIN, CONNECTOR 6P | | | | | D809 | 8-719-230-02 | DIODE 30D4 |
| CN509 | *1-564-338-00 | PIN, CONNECTOR 4P | | | | | D810 | 8-719-230-02 | DIODE 30D4 |
| CN510 | *1-564-338-71 | PIN, CONNECTOR 4P | | | | | D1001 | 8-719-107-94 | DIODE 1SS132 |
| CN511 | *1-564-338-81 | PIN, CONNECTOR 4P | | | | | D1002 | 8-719-107-94 | DIODE 1SS132 |
| CN512 | *1-564-339-00 | PIN, CONNECTOR 5P | | | | | EH501 | 1-543-358-11 | HEAD, MAGNETIC (ERASE) |
| CN701 | *1-564-508-11 | PLUG, CONNECTOR 5P | | | | | F801 | △ 1-532-259-00 | (AEP,UK,E).....FUSE, TIME-LAG (1.6A) |
| CN702 | *1-564-337-00 | PIN, CONNECTOR 3P | | | | | F801 | △ 1-532-742-11 | (US,Canadian)...FUSE, GLASS TUBE (1.6A) |
| CN703 | *1-564-336-00 | PIN, CONNECTOR 2P | | | | | F802 | △ 1-532-259-00 | (AEP,UK,E).....FUSE, TIME-LAG (1.6A) |
| CN704 | *1-564-340-00 | PIN, CONNECTOR 6P | | | | | F802 | △ 1-532-742-11 | (US,Canadian)...FUSE, GLASS TUBE (1.6A) |
| CN705 | *1-564-339-61 | PIN, CONNECTOR 5P | | | | | FL501 | 1-519-497-11 | INDICATOR TUBE, FLUORESCENT |
| CN706 | *1-564-339-00 | PIN, CONNECTOR 5P | | | | | FL701 | 1-519-409-11 | INDICATOR TUBE, FLUORESCENT (COUNTER) |
| CN707 | *1-564-338-61 | PIN, CONNECTOR 4P | | | | | H901 | 8-719-403-79 | OH009-TW |
| CN708 | *1-564-338-00 | PIN, CONNECTOR 4P | | | | | H902 | 8-719-403-79 | OH009-TW |
| CN709 | *1-564-337-61 | PIN, CONNECTOR 3P | | | | | H903 | 8-719-403-79 | OH009-TW |
| CN710 | *1-564-342-11 | PIN, CONNECTOR 8P | | | | | IC501 | 8-759-604-38 | IC M5F78M10 |
| CN711 | *1-564-341-11 | PIN, CONNECTOR 7P | | | | | IC502 | 8-759-604-44 | IC M5F79M10 |
| CN712 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | | | IC503 | 8-759-602-01 | IC M5220P |
| CP501 | 1-466-045-11 | OSCILLATION UNIT, BIAS | | | | | IC504 | 8-752-018-80 | IC CX20188 |
| CT501 | 1-141-225-00 | CAP, TUNING, TRIMAR | | | | | IC505 | 8-759-602-83 | IC M5238P |
| D501 | 8-719-933-47 | DIODE HZS7B2L | | | | | IC506 | 8-752-018-80 | IC CX20188 |
| D502 | 8-719-933-71 | DIODE HZS11C3L | | | | | IC507 | 8-759-981-96 | IC RC4560D |
| D503 | 8-719-912-20 | DIODE 1SS120 | | | | | IC508 | 8-759-981-96 | IC RC4560D |
| D504 | 8-719-912-20 | DIODE 1SS120 | | | | | IC509 | 8-759-145-58 | IC UPC4558C |
| D505 | 8-719-912-20 | DIODE 1SS120 | | | | | IC510 | 8-759-961-38 | IC BA6138 |
| D506 | 8-719-912-20 | DIODE 1SS120 | | | | | IC511 | 8-759-982-26 | IC RC78L12A |
| D507 | 8-719-912-20 | DIODE 1SS120 | | | | | IC512 | 8-759-904-72 | IC MSL9359RS |
| D508 | 8-719-912-20 | DIODE 1SS120 | | | | | IC701 | 8-759-938-34 | IC MB88517B-228N |
| D509 | 8-719-912-20 | DIODE 1SS120 | | | | | IC702 | 8-759-602-47 | IC M50761-417P |
| D510 | 8-719-912-20 | DIODE 1SS120 | | | | | IC703 | 8-759-601-45 | IC M4069UBP |
| D511 | 8-719-912-20 | DIODE 1SS120 | | | | | | | |
| D512 | 8-719-912-20 | DIODE 1SS120 | | | | | | | |


Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description |
|---------|--------------|--|
| IC704 | 8-759-201-58 | IC TC9142P |
| IC705 | 8-741-138-70 | IC BX-1387 |
| IC706 | 8-759-905-48 | IC MSL9512RS |
| IC901 | 8-759-100-96 | IC UPC4558G2 |
| IC902 | 8-752-017-40 | IC CX20174 |
| J501 | 1-507-531-31 | PLATE, PIN-JACK (LINE IN/OUT) |
| J502 | 1-507-796-71 | JACK (HEADPHONES) |
| JR901 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W |
| JR902 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W |
| JR903 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W |
| JR904 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W |
| JR905 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W |
| L101 | 1-408-924-00 | INDUCTOR 10MMH |
| L102 | 1-408-925-11 | INDUCTOR 12MMH |
| L103 | 1-408-920-00 | INDUCTOR 4.7MMH |
| L104 | 1-408-918-11 | INDUCTOR 3.3MMH |
| L105 | 1-408-916-11 | INDUCTOR 2.2MMH |
| L106 | 1-408-925-11 | INDUCTOR 12MMH |
| L201 | 1-408-924-00 | INDUCTOR 10MMH |
| L202 | 1-408-925-11 | INDUCTOR 12MMH |
| L203 | 1-408-920-00 | INDUCTOR 4.7MMH |
| L204 | 1-408-918-11 | INDUCTOR 3.3MMH |
| L205 | 1-408-916-11 | INDUCTOR 2.2MMH |
| L206 | 1-408-925-11 | INDUCTOR 12MMH |
| L501 | 1-410-525-11 | INDUCTOR 220UH |
| L502 | 1-410-525-11 | INDUCTOR 220UH |
| L503 | 1-410-525-11 | INDUCTOR 220UH |
| L1001 | 1-459-426-00 | COIL (FG) |
| LPF101 | 1-236-087-11 | FILTER, LOW PASS |
| LPF201 | 1-236-087-11 | FILTER, LOW PASS |
| M901 | X-3575-382-1 | MOTOR ASSY, REEL |
| PH501 | 8-825-770-51 | HEAD, REC/PB RPA230-3602C (including RH501) |
| PL1001 | 1-518-313-00 | LAMP, PILOT |
| PM901 | 1-454-333-00 | SOLENOID, PLUNGER |
| PM902 | 1-454-291-00 | SOLENOID, PLUNGER |
| PT801A | 1-448-948-11 | (US,Canadian)...TRANSFORMER, POWER |
| PT801A | 1-448-949-11 | (AEP,UK).....TRANSFORMER, POWER |
| PT801A | 1-449-005-11 | (E).....TRANSFORMER, POWER |
| Q101 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q102 | 8-729-102-04 | TRANSISTOR 2SD1020-F |
| Q103 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q104 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q105 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q106 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q201 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q202 | 8-729-102-04 | TRANSISTOR 2SD1020-F |
| Q203 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q204 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q205 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q206 | 8-729-107-84 | TRANSISTOR 2SC3623A-L |
| Q501 | 8-729-900-63 | TRANSISTOR DTA124ES |
| Q502 | 8-729-900-89 | TRANSISTOR DTC144ES |
| Q503 | 8-729-900-36 | TRANSISTOR DTC124ES |

| Ref.No. | Part No. | Description |
|---------|--------------|----------------------|
| Q504 | 8-729-900-36 | TRANSISTOR DTC124ES |
| Q505 | 8-729-900-36 | TRANSISTOR DTC124ES |
| Q506 | 8-729-900-36 | TRANSISTOR DTC124ES |
| Q507 | 8-729-900-36 | TRANSISTOR DTC124ES |
| Q508 | 8-729-281-53 | TRANSISTOR 2SC1815GR |
| Q509 | 8-729-281-53 | TRANSISTOR 2SC1815GR |
| Q510 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q511 | 8-729-900-63 | TRANSISTOR DTA124ES |
| Q512 | 8-729-900-36 | TRANSISTOR DTC144ES |
| Q513 | 8-729-117-54 | TRANSISTOR 2SA1175 |
| Q514 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q515 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q516 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q517 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q518 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q519 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q520 | 8-729-900-65 | TRANSISTOR DTA144ES |
| Q521 | 8-729-900-89 | TRANSISTOR DTC144ES |
| Q701 | 8-729-107-25 | TRANSISTOR 2SD1585-L |
| Q702 | 8-729-107-25 | TRANSISTOR 2SD1585-L |
| Q703 | 8-729-107-25 | TRANSISTOR 2SD1585-L |
| Q704 | 8-729-107-25 | TRANSISTOR 2SD1585-L |
| Q705 | 8-729-107-25 | TRANSISTOR 2SD1585-L |
| Q706 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q707 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q708 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q709 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q710 | 8-729-178-54 | TRANSISTOR 2SC2785 |
| Q711 | 8-729-802-34 | TRANSISTOR 2SD1388 |
| Q712 | 8-729-900-80 | TRANSISTOR DTC114ES |
| Q713 | 8-729-802-34 | TRANSISTOR 2SD1388 |
| Q714 | 8-729-900-80 | TRANSISTOR DTC144ES |
| Q715 | 8-729-802-22 | TRANSISTOR 2SB1014 |
| Q716 | 8-729-802-22 | TRANSISTOR 2SB1014 |
| Q717 | 8-729-900-80 | TRANSISTOR DTC144ES |
| Q718 | 8-729-801-93 | TRANSISTOR 2SD1387 |
| Q719 | 8-729-801-93 | TRANSISTOR 2SD1387 |
| Q720 | 8-729-801-83 | TRANSISTOR 2SB1013 |
| Q721 | 8-729-801-83 | TRANSISTOR 2SB1013 |
| Q722 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q801 | 8-729-180-92 | TRANSISTOR 2SD809-K |
| Q1001 | 8-729-110-22 | TRANSISTOR PH102 |
| Q1002 | 8-729-110-22 | TRANSISTOR PH102 |
| R101 | 1-249-466-11 | CARBON 56K 5% 1/4W |
| R102 | 1-249-652-11 | CARBON 130 5% 1/2W |
| R103 | 1-249-602-11 | CARBON 120K 5% 1/4W |
| R104 | 1-247-255-00 | CARBON 4.3K 5% 1/2W |
| R105 | 1-249-537-11 | CARBON 240 5% 1/4W |
| R106 | 1-249-539-11 | CARBON 300 5% 1/4W |
| R107 | 1-249-429-11 | CARBON 10K 5% 1/4W |
| R108 | 1-247-717-11 | CARBON 2.2K 5% 1/4W |
| R109 | 1-249-928-11 | CARBON 1.6K 5% 1/4W |
| R110 | 1-247-749-11 | CARBON 560 5% 1/2W |
| R111 | 1-247-764-11 | CARBON 10K 5% 1/2W |
| R112 | 1-247-146-00 | CARBON 4.3K 5% 1/4W |

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Note:
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TC-K333ESR/K730ES

Ref.No. Part No. Description

| | | | | | |
|------|--------------|--------|------|----|------|
| R113 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R114 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W |
| R115 | 1-249-917-11 | CARBON | 560 | 1% | 1/4W |
| R116 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R117 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R118 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W |
| R119 | 1-247-154-00 | CARBON | 9.1K | 5% | 1/4W |
| R120 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W |
| R121 | 1-249-490-11 | CARBON | 27K | 5% | 1/2W |
| R122 | 1-249-824-11 | CARBON | 8.2K | 5% | 1/2W |
| R123 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R124 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R125 | 1-247-720-11 | CARBON | 3.9K | 5% | 1/4W |
| R126 | 1-247-719-11 | CARBON | 3.3K | 5% | 1/4W |
| R127 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R128 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R129 | 1-247-747-11 | CARBON | 470 | 5% | 1/2W |
| R130 | 1-247-764-11 | CARBON | 10K | 5% | 1/2W |
| R131 | 1-247-146-00 | CARBON | 4.3K | 5% | 1/4W |
| R132 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R133 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W |
| R134 | 1-249-917-11 | CARBON | 560 | 1% | 1/4W |
| R135 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R136 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R137 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W |
| R138 | 1-247-154-00 | CARBON | 9.1K | 5% | 1/4W |
| R139 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W |
| R140 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R141 | 1-249-461-11 | CARBON | 18K | 5% | 1/4W |
| R142 | 1-247-719-11 | CARBON | 3.3K | 5% | 1/4W |
| R143 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R144 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R145 | 1-249-590-11 | CARBON | 39K | 5% | 1/4W |
| R146 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R147 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R148 | 1-249-459-11 | CARBON | 12K | 5% | 1/4W |
| R149 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R150 | 1-249-466-11 | CARBON | 56K | 5% | 1/4W |
| R151 | 1-249-590-11 | CARBON | 39K | 5% | 1/4W |
| R152 | 1-247-703-11 | CARBON | 180 | 5% | 1/4W |
| R153 | 1-249-459-11 | CARBON | 12K | 5% | 1/4W |
| R154 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R155 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R156 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R157 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R158 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R159 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R160 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W |
| R161 | 1-247-720-11 | CARBON | 3.9K | 5% | 1/4W |
| R162 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R163 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W |
| R164 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R165 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R166 | 1-249-461-11 | CARBON | 18K | 5% | 1/4W |
| R167 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R168 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W |
| R169 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W |

Ref.No. Part No. Description

| | | | | | |
|------|--------------|--------|------|----|------|
| R170 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R171 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R172 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R173 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R174 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W |
| R175 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R201 | 1-249-466-11 | CARBON | 56K | 5% | 1/4W |
| R202 | 1-249-652-11 | CARBON | 130 | 5% | 1/2W |
| R203 | 1-249-602-11 | CARBON | 120K | 5% | 1/4W |
| R204 | 1-247-255-00 | CARBON | 4.3K | 5% | 1/2W |
| R205 | 1-249-537-11 | CARBON | 240 | 5% | 1/4W |
| R206 | 1-249-539-11 | CARBON | 300 | 5% | 1/4W |
| R207 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R208 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R209 | 1-249-928-11 | CARBON | 1.6K | 5% | 1/4W |
| R210 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W |
| R211 | 1-247-764-11 | CARBON | 10K | 5% | 1/2W |
| R212 | 1-247-146-00 | CARBON | 4.3K | 5% | 1/4W |
| R213 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R214 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W |
| R215 | 1-249-917-11 | CARBON | 560 | 1% | 1/4W |
| R216 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R217 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R218 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W |
| R219 | 1-247-154-00 | CARBON | 9.1K | 5% | 1/4W |
| R220 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W |
| R221 | 1-249-490-11 | CARBON | 27K | 5% | 1/2W |
| R222 | 1-249-824-11 | CARBON | 8.2K | 5% | 1/2W |
| R223 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R224 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R225 | 1-247-720-11 | CARBON | 3.9K | 5% | 1/4W |
| R226 | 1-247-719-11 | CARBON | 3.3K | 5% | 1/4W |
| R227 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R228 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R229 | 1-247-747-11 | CARBON | 470 | 5% | 1/2W |
| R230 | 1-247-764-11 | CARBON | 10K | 5% | 1/2W |
| R231 | 1-247-146-00 | CARBON | 4.3K | 5% | 1/4W |
| R232 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R233 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W |
| R234 | 1-249-917-11 | CARBON | 560 | 1% | 1/4W |
| R235 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R236 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R237 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W |
| R238 | 1-247-154-00 | CARBON | 9.1K | 5% | 1/4W |
| R239 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W |
| R240 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R241 | 1-249-461-11 | CARBON | 18K | 5% | 1/4W |
| R242 | 1-247-719-11 | CARBON | 3.3K | 5% | 1/4W |
| R243 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R244 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R245 | 1-249-590-11 | CARBON | 39K | 5% | 1/4W |
| R246 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R247 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R248 | 1-249-459-11 | CARBON | 12K | 5% | 1/4W |
| R249 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R250 | 1-249-466-11 | CARBON | 56K | 5% | 1/4W |
| R251 | 1-249-590-11 | CARBON | 39K | 5% | 1/4W |

| Ref.No. | Part No. | Description |
|---------|----------|-------------|
|---------|----------|-------------|

| | | | | | |
|------|--------------|--------|------|----|------|
| R252 | 1-247-703-11 | CARBON | 180 | 5% | 1/4W |
| R253 | 1-249-459-11 | CARBON | 12K | 5% | 1/4W |
| R254 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R255 | 1-247-142-00 | CARBON | 3K | 5% | 1/4W |
| R256 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R257 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R258 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R259 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R260 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W |
| R261 | 1-247-720-11 | CARBON | 3.9K | 5% | 1/4W |
| R262 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R263 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W |
| R264 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R265 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R266 | 1-249-461-11 | CARBON | 18K | 5% | 1/4W |
| R267 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| R268 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W |
| R269 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W |
| R270 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R271 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R272 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R273 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R274 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W |
| R275 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R501 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R502 | 1-215-472-00 | METAL | 130K | 1% | 1/6W |
| R503 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R504 | 1-215-472-00 | METAL | 130K | 1% | 1/6W |
| R505 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R506 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R507 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R508 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R509 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R510 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R511 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R512 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R513 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R514 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R515 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R516 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R517 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R518 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R519 | 1-247-862-11 | CARBON | 20K | 5% | 1/4W |
| R520 | 1-247-848-11 | CARBON | 5.1K | 5% | 1/4W |
| R521 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R522 | 1-247-846-11 | CARBON | 4.3K | 5% | 1/4W |
| R523 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R524 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R525 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R526 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R527 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R528 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R529 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R530 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R531 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R532 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W |
| R533 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |

| Ref.No. | Part No. | Description |
|---------|----------|-------------|
|---------|----------|-------------|

| | | | | | |
|------|--------------|--------|------|----|------|
| R534 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R535 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R536 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R537 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R538 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R539 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R540 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R541 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R542 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R543 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R544 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R545 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R546 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R547 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R548 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R549 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R550 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R551 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R552 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R553 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R554 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R555 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R556 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R557 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R701 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R702 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R703 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R704 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R705 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R706 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R707 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R708 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R709 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R710 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R711 | 1-247-708-11 | CARBON | 470 | 5% | 1/4W |
| R712 | 1-247-713-11 | CARBON | 1K | 5% | 1/4W |
| R713 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R714 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R715 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R716 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R717 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R718 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R719 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R720 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R721 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R722 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R723 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R724 | 1-247-729-11 | CARBON | 15 | 5% | 1/2W |
| R725 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R726 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R727 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R728 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R729 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R730 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R731 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R732 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R733 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

TC-K333ESR/K730ES

| Ref.No. | Part No. | Description | | | |
|---------|-----------------|-------------|------|----|--------|
| R734 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R735 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R736 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W |
| R737 | 1-247-715-11 | CARBON | 1.5K | 5% | 1/4W |
| R738 | Δ. 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W F |
| R739 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R740 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R741 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R742 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R743 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R744 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R745 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R746 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R747 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R748 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R749 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R750 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R751 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R752 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R753 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R754 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R755 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R756 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R757 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R758 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R759 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R760 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R761 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R762 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R763 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R764 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R765 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R766 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R767 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R768 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R769 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R770 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R771 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R772 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R773 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R774 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R775 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R776 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R777 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R778 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |

| Ref.No. | Part No. | Description | | | |
|---------|-----------------|-----------------------|-------------------------------|----|--------|
| R779 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R780 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R781 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R782 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R783 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R784 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R785 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R786 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R787 | 1-249-458-11 | CARBON | 8.2 | 5% | 1/4W |
| R788 | 1-247-747-11 | CARBON | 470 | 5% | 1/2W |
| R789 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R790 | 1-247-694-11 | CARBON | 33 | 5% | 1/4W |
| R795 | 1-247-901-11 | CARBON | 820K | 5% | 1/4W |
| R799 | 1-247-747-11 | CARBON | 470 | 5% | 1/2W |
| R801 | 1-247-713-11 | CARBON | 1K | 5% | 1/4W |
| R802 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W |
| R803 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R804 | Δ. 1-212-861-11 | FUSIBLE | 15 | 5% | 1/4W F |
| R901 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R902 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R903 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R904 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R905 | 1-216-224-00 | METAL GLAZE | 12K | 5% | 1/8W |
| R906 | 1-216-217-00 | METAL GLAZE | 6.2K | 5% | 1/8W |
| R907 | 1-216-242-00 | METAL GLAZE | 68K | 5% | 1/8W |
| R908 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R909 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W |
| R910 | 1-216-238-00 | METAL GLAZE | 47K | 5% | 1/8W |
| R911 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W |
| R912 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W |
| R913 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W |
| R914 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W |
| R915 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W |
| RV101 | 1-224-251-XX | RES, ADJ, METAL GLAZE | 4.7K(PB LEVEL L) | | |
| RV102 | 1-224-251-XX | RES, ADJ, METAL GLAZE | 4.7K(REC LEVEL L) | | |
| RV103 | 1-237-459-21 | RES, ADJ, CARBON | 10K (LEVEL METER L) | | |
| RV201 | 1-224-251-XX | RES, ADJ, METAL GLAZE | 4.7K(PB LEVEL R) | | |
| RV202 | 1-224-251-XX | RES, ADJ, METAL GLAZE | 4.7K(REC LEVEL R) | | |
| RV203 | 1-237-459-21 | RES, ADJ, CARBON | 10K (LEVEL METER R) | | |
| RV501 | 1-230-344-11 | RES, VAR, CARBON | 20K/20K (REC LEVEL) | | |
| RV502 | 1-237-389-11 | RES, VAR, CARBON | 5K/5K (CALIBRATION REC LEVEL) | | |
| RV503 | 1-237-388-11 | RES, VAR, CARBON | 20K/20K (PHONE LEVEL) | | |
| RV504 | 1-226-560-00 | RES, VAR, CARBON | 5K (CALIBRATION BIAS) | | |
| RV505 | 1-237-456-11 | RES, ADJ, CARBON | 1K (NORMAL BIAS I) | | |

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description |
|---------|----------------|---|
| RV506 | 1-237-455-11 | RES, ADJ, CARBON 500(NORMAL BIAS IV) |
| RV701 | 1-228-990-00 | RES, ADJ, CARBON 1K (FWD TORQUE) |
| RY501 | 1-515-614-11 | RELAY (LINE MUTE) |
| S501 | 1-554-338-00 | SWITCH, LEVER SLIDE (MONITOR) |
| S502 | 1-571-092-11 | SWITCH, PUSH (4 KEY) (DOLBY NR,MPX FILTER) |
| S701 | 1-554-303-21 | SWITCH, KEY BOARD (■) |
| S702 | 1-554-303-21 | SWITCH, KEY BOARD (◀) |
| S703 | 1-554-303-21 | SWITCH, KEY BOARD (▶) |
| S704 | 1-554-303-21 | SWITCH, KEY BOARD (REC ●) |
| S705 | 1-554-303-21 | SWITCH, KEY BOARD (▶) |
| S706 | 1-554-303-21 | SWITCH, KEY BOARD (PAUSE ■■) |
| S707 | 1-554-303-21 | SWITCH, KEY BOARD (REC MUTE ●) |
| S708 | 1-554-303-21 | SWITCH, KEY BOARD (COUNTER RESET) |
| S709 | 1-554-303-21 | SWITCH, KEY BOARD (COUNTER MEMORY) |
| S710 | 1-516-781-XX | SWITCH, ROTARY (TIMER) |
| S801 | △ 1-554-920-11 | SWITCH, PUSH (AC POWER)(1 KEY) |
| S802 | △ 1-570-307-11 | (E)...SWITCH, VOLTAGE CHANGE |
| S1001 | 1-554-205-00 | SWITCH, PUSH (ERASE PROOF) |
| S1002 | 1-554-205-00 | SWITCH, PUSH (HALF DET) |
| S1003 | 1-554-205-00 | SWITCH, PUSH (LOCK DET) |
| S1004 | 1-554-205-00 | SWITCH, PUSH (METAL) |
| S1005 | 1-554-205-00 | SWITCH, PUSH (CrO2) |
| TH501 | 1-800-200-00 | THERMISTOR S-3K |
| THP501 | △ 1-202-856-00 | SOLID 22 1/4W F |
| X701 | 1-567-160-00 | OSCILLATOR, CERAMIC (4.19MHz) |
| X702 | 1-527-532-00 | OSCILLATOR, CERAMIC (400kHz) |
| X703 | 1-567-731-11 | VIBRATOR, CRYSTAL (10.5MHz) |

ACCESSORY & PACKING MATERIAL

| | |
|---------------|--|
| 1-465-104-11 | {UK}...REMOTE COMMANDER (RM-J600) |
| 1-551-734-11 | CORD, CONNECTION (RK-74A) |
| *3-318-684-01 | CUSHION |
| *3-350-429-01 | {US,Canadian,AEP}...INDIVIDUAL CARTON |
| *3-350-429-11 | {E}.....INDIVIDUAL CARTON |
| *3-350-437-01 | {UK}.....INDIVIDUAL CARTON |
| 3-701-630-00 | BAG, POLYETHYLENE |
| 3-703-450-01 | {US}...INSTRUCTION |
| 3-786-746-21 | {US,Canadian,UK,E}...MANUAL, INSTRUCTION |
| 3-786-746-41 | {AEP}.....MANUAL, INSTRUCTION |
| 3-786-746-51 | {Canadian,AEP}.....MANUAL, INSTRUCTION |
| 3-793-481-13 | INSTRUCTION |
| 4-384-285-01 | {UK}...COVER, BATTERY |
| 4-820-330-31 | {EXCEPT UK}...SCREW, BW, PLUS MINUS |

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC-K333ESR/K730ES

9-953-769-11

Sony Corporation
Audio Group

—48—

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